DECEMBER 2025
BASIC SEPTIC TRAINING

BRENT LAWSON

STATE SITE EVALUATOR/PLUMBING INSPECTOR

OVERSEES SITE EVALUATORS AND PLUMBING INSPECTORS

RESPONSIBLE FOR APPROVING OR DENYING VARIANCES TO THE SUBSURFACE WASTEWATER RULES

SITE VISITS

THE STATE AGENCY RESPONSIBLE FOR THE SUBSURFACE WASTEWATER DISPOSAL RULES

Department Of Health & Human Services
Maine Center For Disease Control & Prevention
11 State House Station
Augusta, Maine 04333
Last Amended: September 23, 2023

STATE OF MAINE

SUBSURFACE WASTEWATER DISPOSAL RULE

10-144 CODE OF MAINE RULES
Chapter 241

Department Of Health & Human Services
Maine Center For Disease Control & Prevention
11 State House Station
Augusta, Maine 04333

Last Amended: September 23, 2023

OUR HOMEPAGE IS FOUND AT:

https://www.maine.gov/dhhs/mecdc/environmental-health/plumb/policies/policy03.htm

THIS CODE IS THE STATE OF MAINE'S MINIMUM REQUIREMENTS

A SITE EVALUATOR MAY DESIGN OVER AND ABOVE THE DESIGN REQUIREMENTS IN THIS CODE

Needs 1,000-gallon septic tank – SE may design 1,500-gallon septic tank

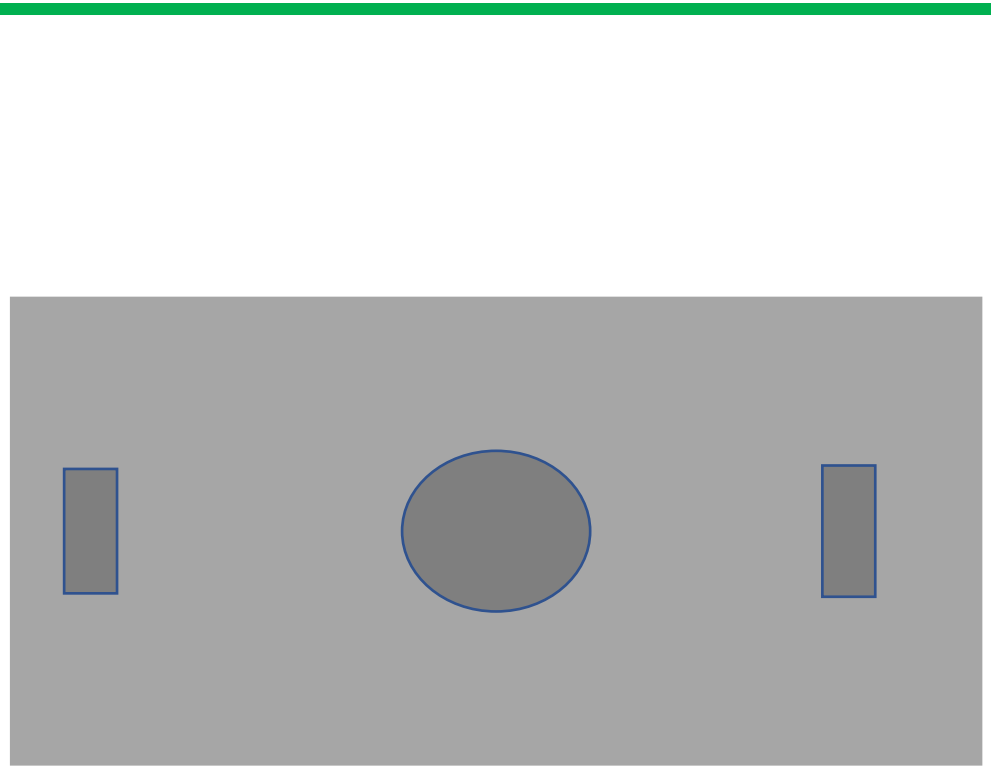
Requires 12 inches of stone, se may design 15 inches of stone

IF A SPECIFIC RULE IS NOT SHOWN OR NOTED ON THE HHE-200, FOR INSTANCE RISERS, THE RULE STILL NEEDS TO BE FOLLOWED

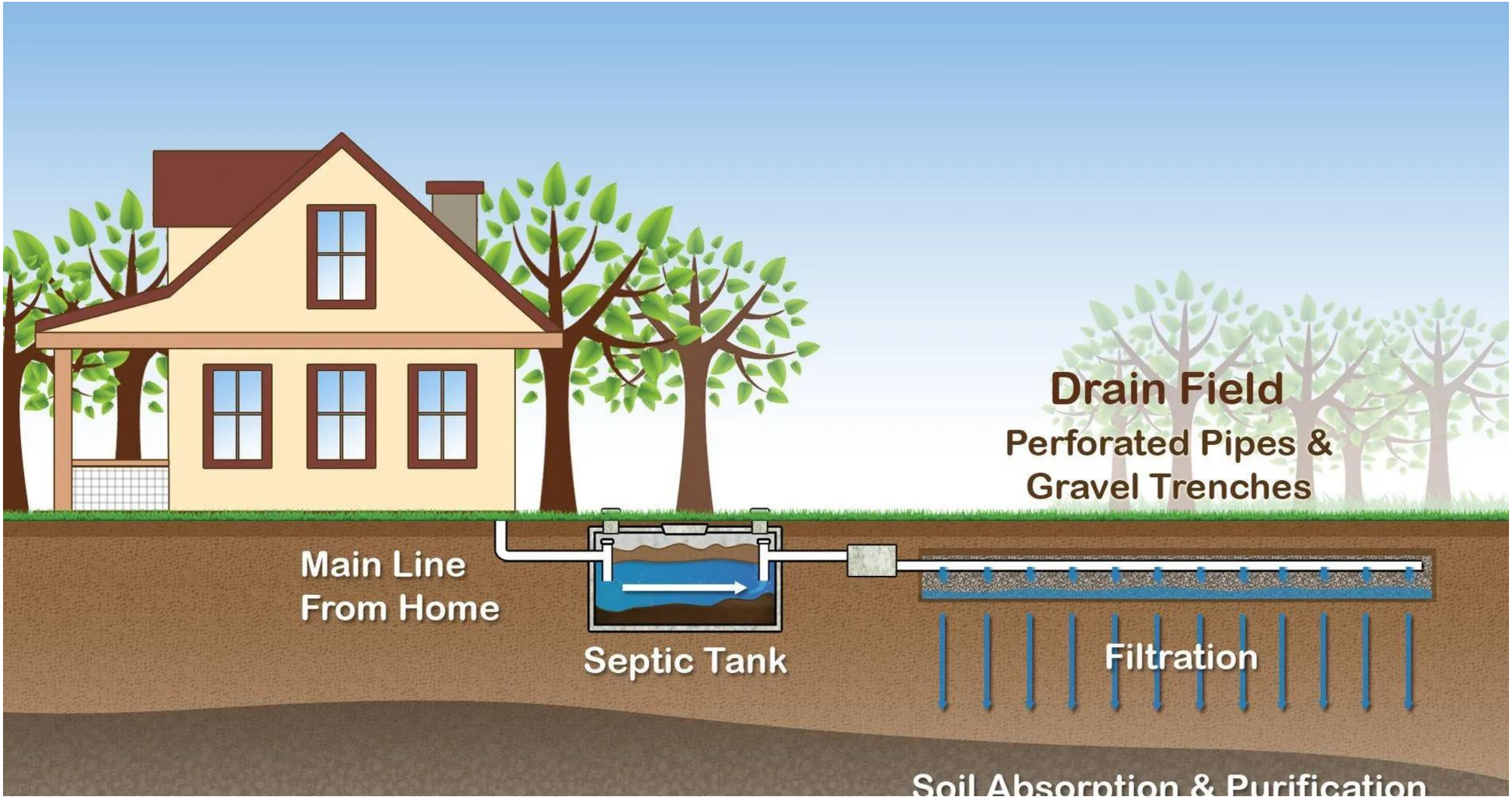
SECTION 7F-Page 65

Access openings:

Access openings for all septic tanks are required to have a minimum of one watertight riser to finish grade in order to simplify location and maintenance. The riser must be located at the appropriate opening to facilitate pumping.



YOUR BASIC SEPTIC SYSTEM


Drain Field
Perforated Pipes &
Gravel Trenches
Main Line
From Home
Septic Tank
Filtration
Soil Absorption & Purification


OH GREAT,
I LEFT IT
AT HOME!
SCHMIDT

CERTIFIED SYSTEM INSTALLER

The Program
Certifications are awarded to applicants who meet following criteria:

Attendance at one (1) full-day basic training session; and
Submission of two (2) HHE-200 Forms (wastewater disposal system designs) the certification applicant installed, for which a permit was issued, and an inspection performed by the Local Plumbing Inspector; or other relevant qualifications, reviewed on a case-by-case basis

Certifications are valid for a period of 5 calendar years.

The certified installer must attend at least 6 hours of training each 5 years thereafter, or the certification will lapse. One may attend other relevant training(s) (for example, product manufacturer demonstrations, DEP erosion control, etc..) to be reviewed on a case-by-case basis.

CERTIFIED CONTRACTORS

THE FIRST INSPECTION IS WAIVED WITH PRIOR LPI APPROVAL

Voluntary Contractor Certification

Initial certification requires attendance at a basic installers training course and the submission to the Division of copies of the first pages of the designs for two systems installed and inspected.

To maintain certification a minimum of **6 hours continuing education each five years** thereafter will be required.

A listing of Certified installers shall be maintained by the Division of Environmental Health. Copies of the list are distributed to all Local Plumbing Inspectors and Site Evaluators and to anyone from the general public requesting it. The list is also posted on the Division of Environmental Health's web site.

IF A CERTIFICATE OF ATTENDANCE IS NOT SENT IN BEFORE YOUR EXPIRATION DATE, YOU WILL NOT BE RECERTIFIED

Janet T. Mills
Governor

Jeanne M. Lambrew, Ph.D.
Commissioner

Maine Department of Health and Human Services
Maine Center for Disease Control and Prevention
11 State House Station
286 Water Street
Augusta, Maine 04333-0011
Tel; (207) 287-8016; Fax (207) 287-9058
TTY: Dial 711 (Maine Relay)

Voluntary Certification Program

Subsurface Wastewater Disposal Systems

In association with the Maine Department of Environmental Protection, Nonpoint Source Training and Resource Center the Division of Environmental Health is pleased to offer a voluntary certification program for individuals who install or inspect subsurface wastewater disposal systems. The Maine Subsurface Wastewater Disposal Rules, CMR 241, do not require certification as a condition of obtaining a permit for the purpose of installing a subsurface wastewater disposal system; however, possession of this certification may allow the installer to sign an affidavit (HHE-238B) to cover the first system inspection noted in Section 111.5.1 of the Rules **only if the Local Plumbing Inspector is in agreement**.

Once issued the certification is good for **five (5) years**. The following criteria must be met for initial certification by the Department:

1. Attendance at one (1) Basic System Installation Training Session conducted by the Subsurface Wastewater Program; and

2. **For installers only**, submission of page one from two (2) HHE-200 Forms which were permitted and installed by the applicant and inspected and found in compliance with the Rules and signed by the Local Plumbing Inspector.

   PLEASE MAKE SURE THAT THE 1ST AND 2ND INSPECTIONS ARE DONE ON THESE HHE 200-FORMS.

At the end of the five-year certification period, the certification will be renewed for five more years if the certified individual submits proof of attendance at subsurface wastewater related training session(s) providing a minimum of 6 contact hours within the past certification period. It is the responsibility of the certified individual to ensure that proof of attendance is provided to the Division of Environmental Health.

Mail to: **Maine Department of Health & Human Services**
Division of Environmental and Community Health
Subsurface Wastewater Team
286 Water Street, 3rd Floor
Augusta, Maine 04333

Name: _____

Company: _____

Address: _____

Municipality: _____ State: _____ Zip: _____

Telephone: _____ Email: _____

Training Session Attended: _____ Date: _____

Check one: ☐ Certified Septic System Installer ☐ Certified Septic System Inspector ☐ Renewal

01/2019

This form
PLUS
2 signed
copies of page
one of the
HHE-200 form
from
installations

FINAL INSPECTION MUST BE SIGNED OFF

DIVISION OF ENVIRONMENTAL HEALTH

SUBSURFACE WASTEWATER PROGRAM

AFFIDAVIT OF SITE PREPARATION

This affidavit is to be completed by a certified system installer and submitted to the Local Plumbing Inspector to document compliance with **Section 111.5.1** of the Maine Subsurface Wastewater Disposal Rules, **144 CMR 241.** ***Permission to utilize this document in lieu of a site preparation inspection by the Local Plumbing Inspector must be verified when the permit is issued.*** This affidavit is ***not*** to be utilized in place of the system inspection described in **Section 111.5.2** of the Rules.

INSTALLER NAME: _____
(Please Print)

CERTIFICATION NUMBER: _____

SSWD PERMIT NUMBER: _____

PERMIT ISSUE DATE: _____

PROPERTY OWNER NAME: _____

PROPERTY ADDRESS: _____

MUNICIPALITY: _____

By signing and submitting this document to the Local Plumbing Inspector, I certify that all construction activities noted in **Section 111.5.1** including removal of all vegetation from the disposal field area and fill extensions as specified in **Section 801.3**; roughening of the ground surface as specified in **Section 801.4**; establishment of a transitional horizon as specified in **Section 801.5**; and placement of erosion control devices as specified in **Section 801.2** have been completed in full compliance with the Maine Subsurface Wastewater Disposal Rules, **144 CMR 241** for the referenced SSWD permit.

INSTALLER SIGNATURE: _____

DATE SUBMITTED: _____

By signing and accepting this document from the Certified Installer, I acknowledge that a site preparation inspection was not conducted for the referenced SSWD permit.

LPI SIGNATURE: _____

ACCEPTANCE DATE: _____

HHE-238-B (Revised 01/2008)

MUST BE ATTACHED TO EACH PERMIT

THIS FORM ONLY TO BE USED AFTER THE LPI'S APPROVAL

IT IS UP TO THE LPI

12D. CONSTRUCTION

1. **Construction:** The installer of the system must make certain that the system and all its component parts are installed in conformance with the requirements of this rule, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an approved variance.

2. Soil and backfill material: The installer of the system must make certain that the construction and installation are performed without affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.

How to Get Certified/Recertified/Reinstated in Erosion Control Practices

Certification application packages can be submitted by email to

john.maclaine@maine.gov
John Maclaine, 207- 615-3279

TAKING THIS COURSE WILL ALSO COMPLETE YOUR VOLUNTARY CERTIFICATION.
YOU WILL ALSO HAVE 2 CERTIFICATIONS.
INSTALLER AND EROSION CONTROL WHICH ALLOWS YOU TO WORK IN THE SHORELAND ZONE

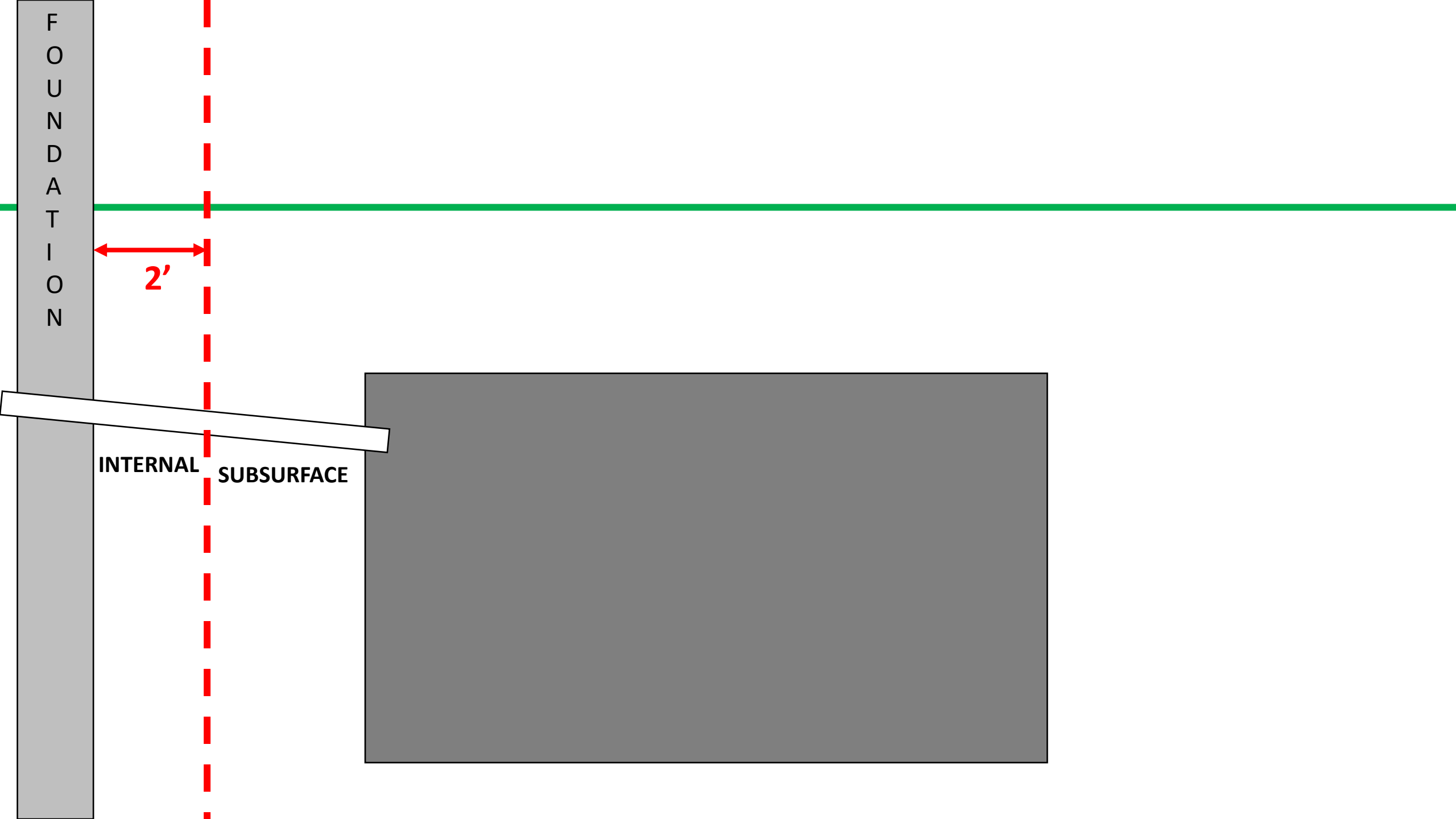
Alternative toilet:

A device, other than a water closet or other fixture, located inside a structure, designed to treat or store human waste only. Examples are: pit privies and vault toilets.

Portable toilets are not considered Alternative Toilets, as they are only for temporary use (see definition of temporary portable toilet).

Temporary portable toilet:

A prefabricated toilet designed for temporary use, typically at social functions, work sites, outdoor gatherings, etc. No plumbing permit or site evaluation is required.


FOUNDATION
2’
INTERNAL
SUBSURFACE

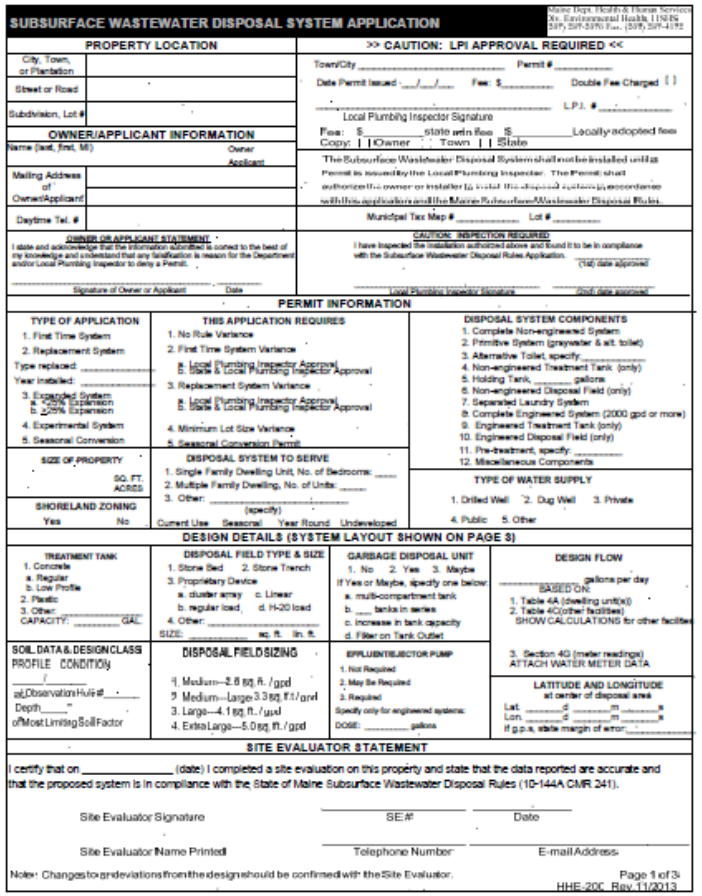
INTERNAL
OR
EXTERNAL?

Here is a photo of what the fair attendees looked like after

BEFORE WE HAVE AN INSTALLATION WE MUST HAVE A

DESIGN

NOTE: THE FOLLOWING PLANS ARE ON THE EXISTING HHE-200 FORMS



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div. Environmental Health, 11SHS
Augusta, ME 04333-0011
(207) 287-5670 Fax: (207) 287-4172

PROPERTY LOCATION

>> CAUTION: LPI APPROVAL REQUIRED <<

City, Town, or Plantation

Street or Road

Subdivision, Lot #

Town/City _____ Permit # _____

Date Permit Issued: __/__/__ Fee: $_____ Double Fee Charged [ ]

_____ L.P.I. # _____
Local Plumbing Inspector Signature

Fee: $_____ state min fee $_____ Locally-adopted fees

Copy: [ ] Owner [ ] Town [ ] State

OWNER/APPLICANT INFORMATION

Name (last, first, MI) Owner / Applicant

Mailing Address of Owner/Applicant

Daytime Tel. #

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # _____ Lot # _____

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

_____ _____
Signature of Owner or Applicant Date

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved

_____ _____
Local Plumbing Inspector Signature (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
1. First Time System
2. Replacement System
Type replaced: _____
Year installed: _____
3. Expanded System
a. <25% Expansion
b. >25% Expansion
4. Experimental System
5. Seasonal Conversion

THIS APPLICATION REQUIRES
1. No Rule Variance
2. First Time System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
1. Complete Non-engineered System
2. Primitive System (graywater & wit. toilet)
3. Alternative Toilet, specify: _____
4. Non-engineered Treatment Tank (only)
5. Holding Tank, _____ gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify: _____
12. Miscellaneous Components

SIZE OF PROPERTY
_____ SQ. FT.
_____ ACRES

SHORELAND ZONING
Yes No

DISPOSAL SYSTEM TO SERVE
1. Single Family Dwelling Unit, No. of Bedrooms: ____
2. Multiple Family Dwelling, No. of Units: ____
3. Other: _____ (specify)
Current Use Seasonal Year Round Undeveloped

TYPE OF WATER SUPPLY
1. Drilled Well 2. Dug Well 3. Private
4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. Concrete
a. Regular
b. Low Profile
2. Plastic
3. Other
CAPACITY: _____ GAL.

DISPOSAL FIELD TYPE & SIZE
1. Stone Bed 2. Stone Trench
3. Proprietary Device
a. cluster array c. Linear
b. regular load d. H-20 load
4. Other: _____
SIZE: _____ sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT
1. No 2. Yes 3. Maybe
If Yes or Maybe, specify one below:
a. multi-compartment tank
b. ___ tanks in series
c. increase in tank capacity
d. Filter on Tank Outlet

DESIGN FLOW
_____ gallons per day
BASED ON:
1. Table 4A (dwelling unit(s))
2. Table 4C(other facilities)
SHOW CALCULATIONS for other facilities
3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION
_____ / _____
at Observation Hole # ____
Depth _____"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
1. Medium—2.8 sq. ft. / gpd
2. Medium—Large 3.3 sq. ft./ gpd
3. Large—4.1 sq. ft. / gpd
4. Extra Large—5.0 sq. ft. / gpd

EFFLUENT EJECTOR PUMP
1. Not Required
2. May Be Required
3. Required
Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. ____d ____m ____s
Lon. ____d ____m ____s
If g.p.s, state margin of error: _____

SITE EVALUATOR STATEMENT

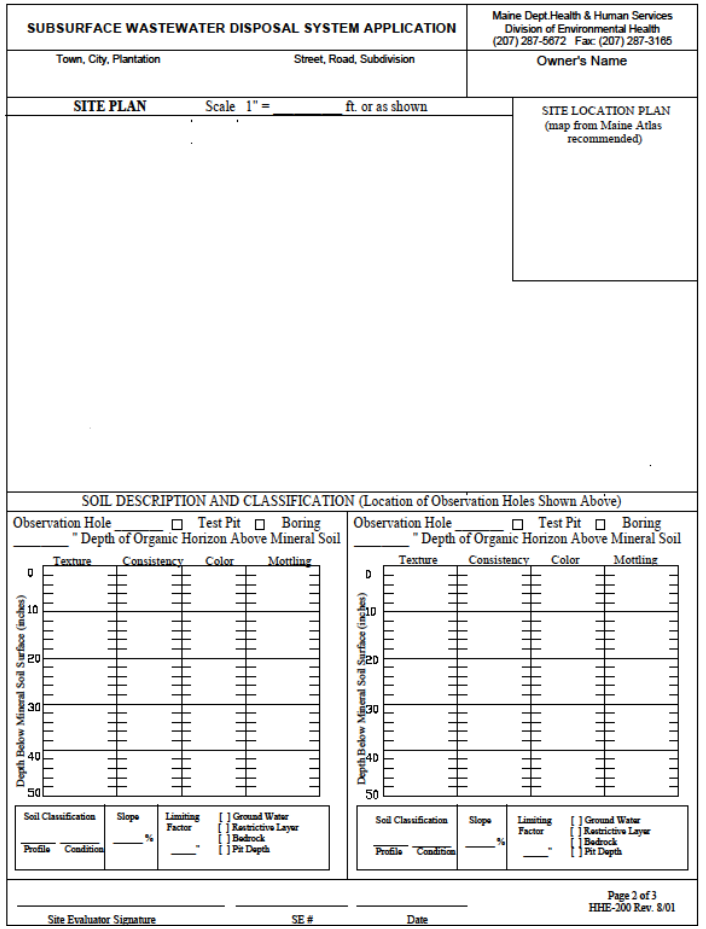
I certify that on _____ (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

_____ _____ _____
Site Evaluator Signature SE #: Date

_____ _____ _____
Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3
HHE-200 Rev. 11/2013



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

SITE PLAN Scale 1" = _____ ft. or as shown

SITE LOCATION PLAN
(map from Maine Atlas recommended)

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole _____ [ ] Test Pit [ ] Boring
_____" Depth of Organic Horizon Above Mineral Soil

Texture Consistency Color Mottling

Depth Below Mineral Soil Surface (inches): 0, 10, 20, 30, 40, 50

Soil Classification: Profile ____ Condition ____
Slope: ____ %
Limiting Factor: ____"
[ ] Ground Water
[ ] Restrictive Layer
[ ] Bedrock
[ ] Pit Depth

Observation Hole _____ [ ] Test Pit [ ] Boring
_____" Depth of Organic Horizon Above Mineral Soil

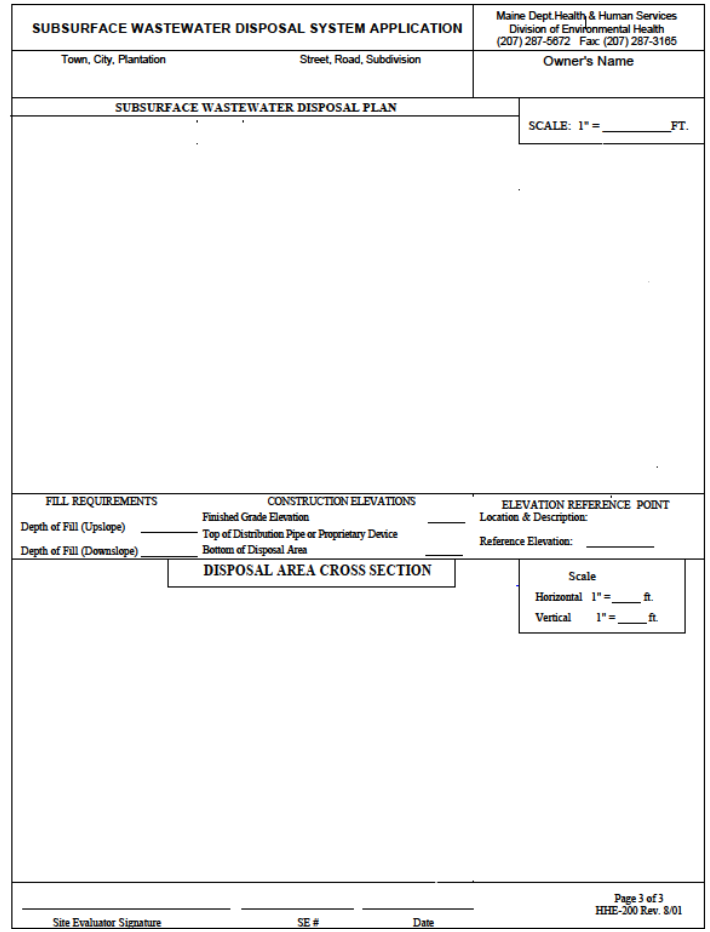
Texture Consistency Color Mottling

Depth Below Mineral Soil Surface (inches): 0, 10, 20, 30, 40, 50

Soil Classification: Profile ____ Condition ____
Slope: ____ %
Limiting Factor: ____"
[ ] Ground Water
[ ] Restrictive Layer
[ ] Bedrock
[ ] Pit Depth

_____ _____ _____
Site Evaluator Signature SE # Date

Page 2 of 3
HHE-200 Rev. 8/01



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = _____ FT.

FILL REQUIREMENTS
Depth of Fill (Upslope) _____
Depth of Fill (Downslope) _____

CONSTRUCTION ELEVATIONS
Finished Grade Elevation _____
Top of Distribution Pipe or Proprietary Device
Bottom of Disposal Area _____

ELEVATION REFERENCE POINT
Location & Description:
Reference Elevation: _____

DISPOSAL AREA CROSS SECTION

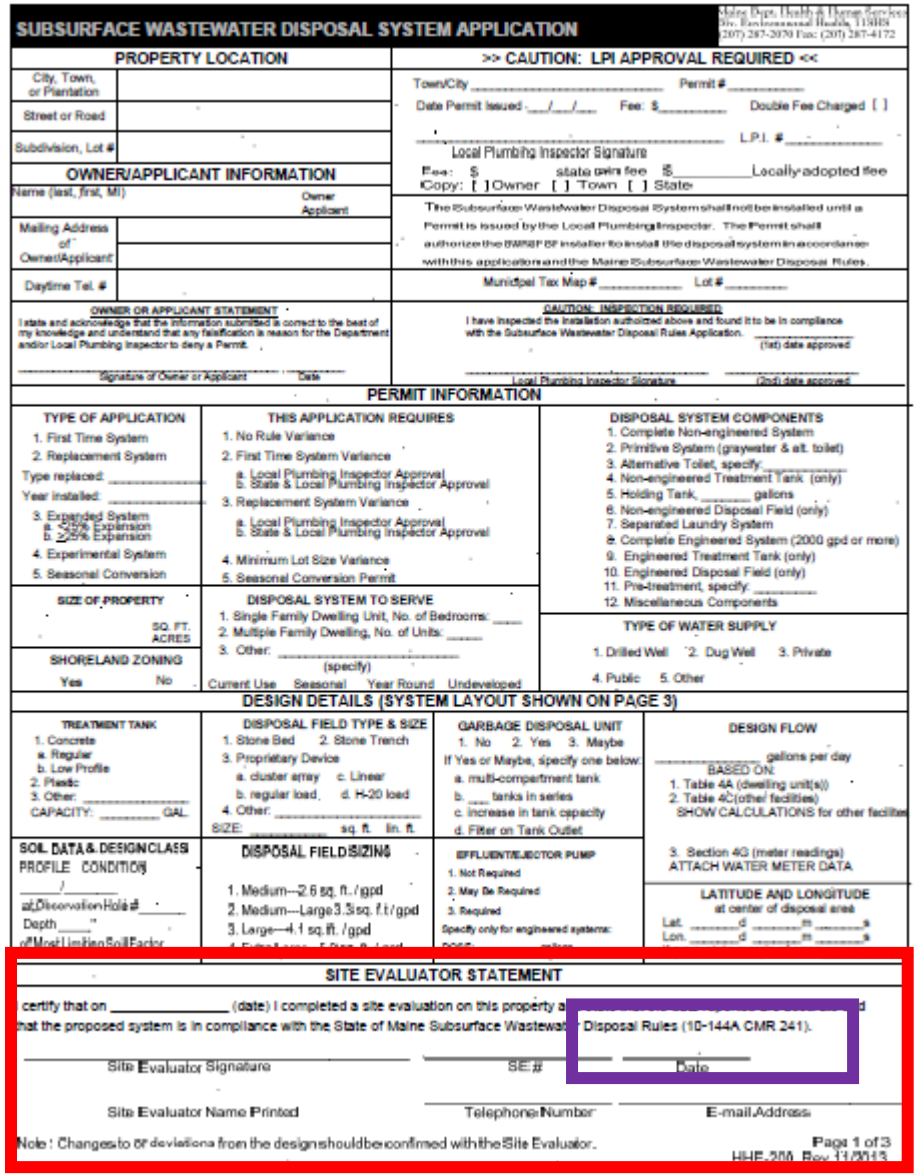
Scale
Horizontal 1" = ____ ft.
Vertical 1" = ____ ft.

_____ _____ _____
Site Evaluator Signature SE # Date

Page 3 of 3
HHE-200 Rev. 8/01

How long is it good for?

JUST AN APPLICATION (NOT PERMITTED)



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div. Environmental Health, 11SHS
(207) 287-2070 Fax: (207) 287-4172

PROPERTY LOCATION

City, Town, or Plantation

Street or Road

Subdivision, Lot #

OWNER/APPLICANT INFORMATION

Name (last, first, MI) Owner Applicant

Mailing Address of Owner/Applicant

Daytime Tel. #

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant Date

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City Permit #

Date Permit Issued ___/___/___ Fee: $ Double Fee Charged [ ]

Local Plumbing Inspector Signature L.P.I. #

Fee: $ state surcharge fee $ Locally-adopted fee

Copy: [ ] Owner [ ] Town [ ] State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # Lot #

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(1st) date approved

Local Plumbing Inspector Signature (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
1. First Time System
2. Replacement System
Type replaced:
Year installed:
3. Expanded System
a. <25% Expansion
b. ≥25% Expansion
4. Experimental System
5. Seasonal Conversion

THIS APPLICATION REQUIRES
1. No Rule Variance
2. First Time System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
a. Local Plumbing Inspector Approval
b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
1. Complete Non-engineered System
2. Primitive System (graywater & alt. toilet)
3. Alternative Toilet, specify:
4. Non-engineered Treatment Tank (only)
5. Holding Tank, gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify:
12. Miscellaneous Components

SIZE OF PROPERTY
SQ. FT.
ACRES

SHORELAND ZONING
Yes No

DISPOSAL SYSTEM TO SERVE
1. Single Family Dwelling Unit, No. of Bedrooms:
2. Multiple Family Dwelling, No. of Units:
3. Other: (specify)
Current Use Seasonal Year Round Undeveloped

TYPE OF WATER SUPPLY
1. Drilled Well 2. Dug Well 3. Private
4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
1. Concrete
a. Regular
b. Low Profile
2. Plastic
3. Other:
CAPACITY: GAL

DISPOSAL FIELD TYPE & SIZE
1. Stone Bed 2. Stone Trench
3. Proprietary Device
a. cluster array c. Linear
b. regular load d. H-20 load
4. Other:
SIZE: sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT
1. No 2. Yes 3. Maybe
If Yes or Maybe, specify one below:
a. multi-compartment tank
b. ___ tanks in series
c. increase in tank capacity
d. Filter on Tank Outlet

DESIGN FLOW
gallons per day
BASED ON:
1. Table 4A (dwelling unit(s))
2. Table 4C (other facilities)
SHOW CALCULATIONS for other facilities
3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION
/
at Observation Hole #
Depth "
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
1. Medium---2.6 sq. ft. / gpd
2. Medium---Large 3.3 sq. f.t / gpd
3. Large---4.1 sq. ft. / gpd

EFFLUENT EJECTOR PUMP
1. Not Required
2. May Be Required
3. Required
Specify only for engineered systems:

LATITUDE AND LONGITUDE
at center of disposal area
Lat. d m s
Lon. d m s

SITE EVALUATOR STATEMENT

I certify that on (date) I completed a site evaluation on this property and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature SE # Date

Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3
HHE-200 Rev 11/2013

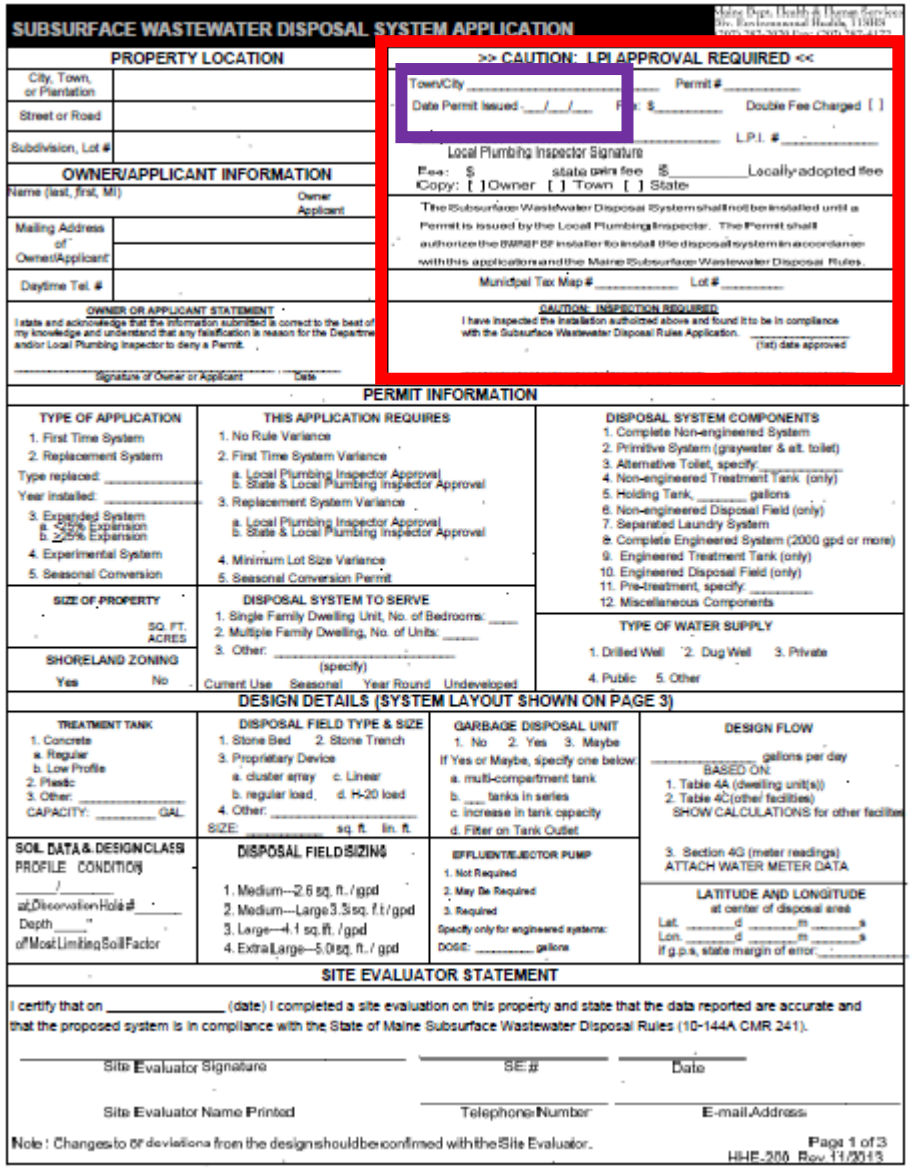
GOOD UNTIL THE RULES CHANGE

BUT

SEC. 3(A)(5)

All unpermitted applications more than two (2) years old must be reviewed by the Site Evaluator and updated as required.

How long is it good for?



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

City, Town, or Plantation

Street or Road

Subdivision, Lot #

OWNER/APPLICANT INFORMATION

Name (last, first, MI) Owner Applicant

Mailing Address of Owner/Applicant

Daytime Tel. #

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Departme and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant Date

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City Permit #

Date Permit Issued ___/___/___ Fee: $ Double Fee Charged [ ]

Local Plumbing Inspector Signature L.P.I. #

Fee: $ state surcharge fee $ Locally-adopted fee

Copy: [ ] Owner [ ] Town [ ] State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the OWNER or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # Lot #

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(list) date approved

PERMIT INFORMATION

TYPE OF APPLICATION

1. First Time System
2. Replacement System

Type replaced:

Year installed:

3. Expanded System
   a. <25% Expansion
   b. ≥25% Expansion
4. Experimental System
5. Seasonal Conversion

SIZE OF PROPERTY

SQ. FT. ACRES

SHORELAND ZONING

Yes No

THIS APPLICATION REQUIRES

1. No Rule Variance
2. First Time System Variance
   a. Local Plumbing Inspector Approval
   b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
   a. Local Plumbing Inspector Approval
   b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Permit

DISPOSAL SYSTEM TO SERVE

1. Single Family Dwelling Unit, No. of Bedrooms:
2. Multiple Family Dwelling, No. of Units:
3. Other: (specify)

Current Use Seasonal Year Round Undeveloped

DISPOSAL SYSTEM COMPONENTS

1. Complete Non-engineered System
2. Primitive System (graywater & alt. toilet)
3. Alternative Toilet, specify:
4. Non-engineered Treatment Tank (only)
5. Holding Tank, gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify:
12. Miscellaneous Components

TYPE OF WATER SUPPLY

1. Drilled Well 2. Dug Well 3. Private
4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. Concrete
   a. Regular
   b. Low Profile
2. Plastic
3. Other:

CAPACITY: GAL

DISPOSAL FIELD TYPE & SIZE

1. Stone Bed 2. Stone Trench
3. Proprietary Device
   a. cluster array c. Linear
   b. regular load d. H-20 load
4. Other:

SIZE: sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT

1. No 2. Yes 3. Maybe

If Yes or Maybe, specify one below:

a. multi-compartment tank
b. ___ tanks in series
c. increase in tank capacity
d. Filter on Tank Outlet

DESIGN FLOW

gallons per day

BASED ON:

1. Table 4A (dwelling unit(s))
2. Table 4C (other facilities)
   SHOW CALCULATIONS for other facilities
3. Section 4G (meter readings)
   ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION

/

at Observation Hole #

Depth "

of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

1. Medium---2.6 sq. ft. / gpd
2. Medium---Large 3.3 sq. f.t / gpd
3. Large---4.1 sq. ft. / gpd
4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT EJECTOR PUMP

1. Not Required
2. May Be Required
3. Required

Specify only for engineered systems:

DOSE: gallons

LATITUDE AND LONGITUDE

at center of disposal area

Lat. d m s

Lon. d m s

If g.p.s, state margin of error:

SITE EVALUATOR STATEMENT

I certify that on (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature SE #: Date

Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3

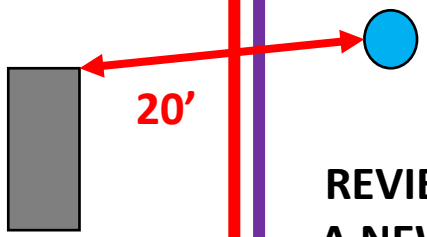
HHE-200 Rev 11/2013

IF ITS PERMITTED

A permit is valid for work commenced within 24 months after the permit is issued.

THE REASON WHY…

BEFORE YOU PERMIT THIS APPLICATION



REVIEWED BY THE SE TO MAKE SURE A NEW WELL WASN’T DRILLED AFTER THE HHE-200 WAS DONE

SEC. 3(A)(5)

All unpermitted applications more than two (2) years old must be reviewed by the Site Evaluator and updated as required.

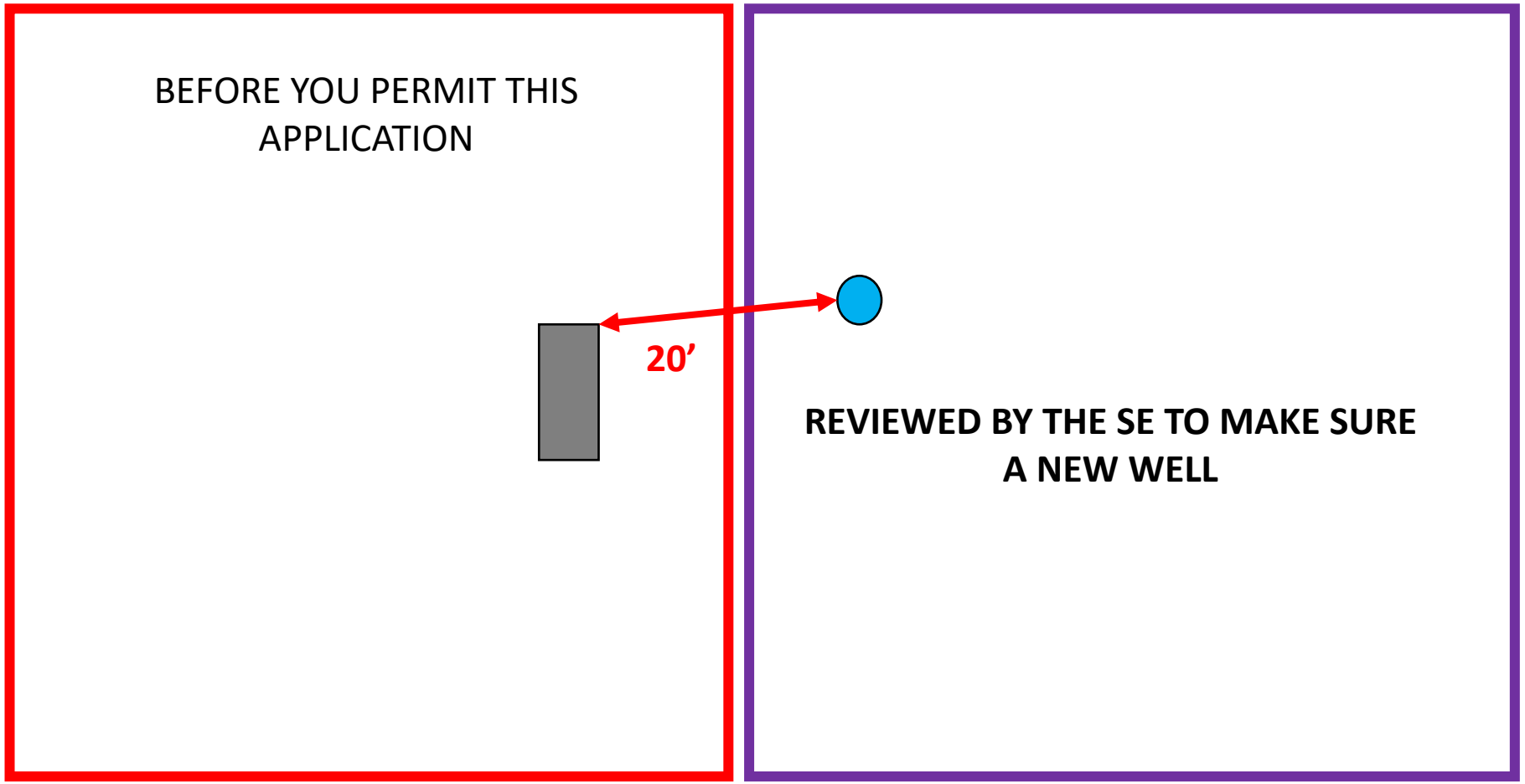
Work commenced:

The work has commenced when any construction

directly associated

with the system's or system component's installation has begun.

IF ITS PERMITTED BUT NOT INSTALLED



THAT PREVENTS THAT WELL FROM BEING DRILLED LESS THAN 100’ AWAY FROM THE PERMITTED DISPOSAL FIELD

A PERMITTED HHE-200 PROTECTS THE DESIGN FROM ANY ENCHROACHMENT

System, legally existing:

A “legally existing system” is a subsurface wastewater disposal system that was either installed prior to July 1, 1974, or was permitted on or after July 1, 1974, in accordance with a design permitted by the LPI.

IF A WELL WAS DRILLED AFTER THE SEPTIC SYSTEM WAS PERMITTED AND IS CLOSER THAN THE REQUIREMENTS IN TABLE 8B OR 9A, THE WELL DRILLER IS RESPONSIBLE AND MUST RECTIFY THE SITUATION

PERMITED
11/24/2025

DRILLED
11/25/2025

B. AUTHORIZED DESIGNERS

1. **Non-engineered systems:**

A site evaluator licensed in Maine shall design non-engineered systems.

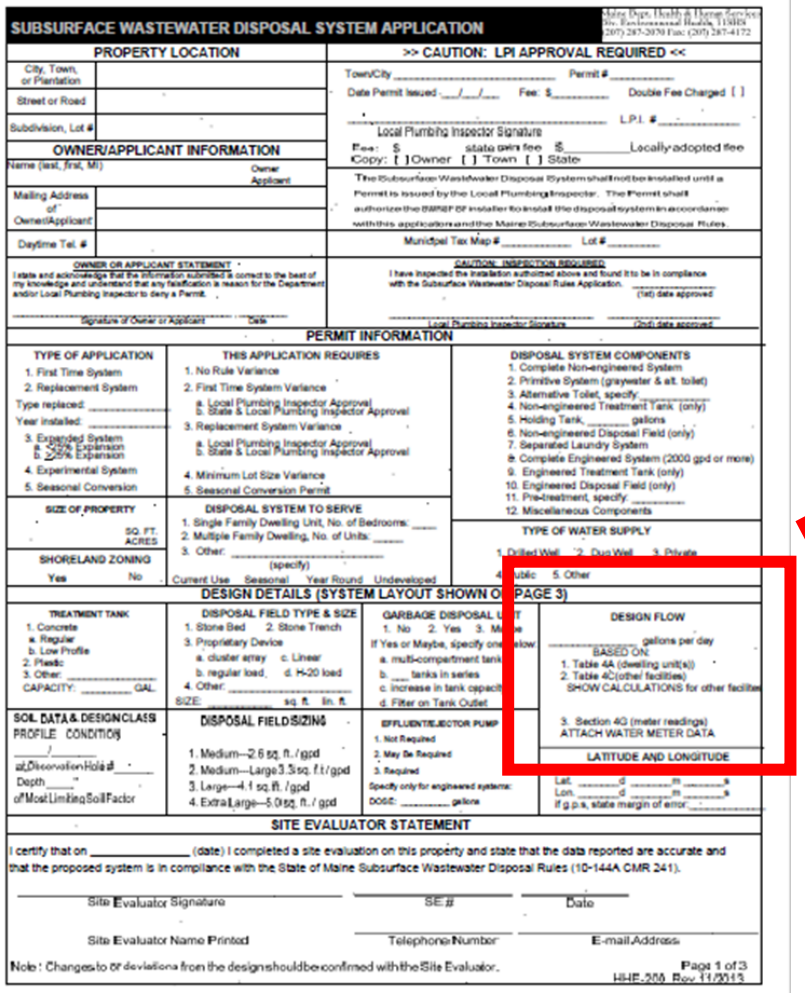
2. **Engineered systems:**

A site evaluator licensed in Maine shall provide observation hole logs and soil profile descriptions as described in Section 10.C.4 for engineered systems.

A professional engineer, licensed in Maine, shall design engineered systems, and may consult with the site evaluator.

WHAT IS AN ENGINEERED SYSTEM?

2,000 gallons of wastewater per day or more,
combined BOD5 and total suspended solids concentration greater than 1,400 mg/L. **(TESTING)**



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

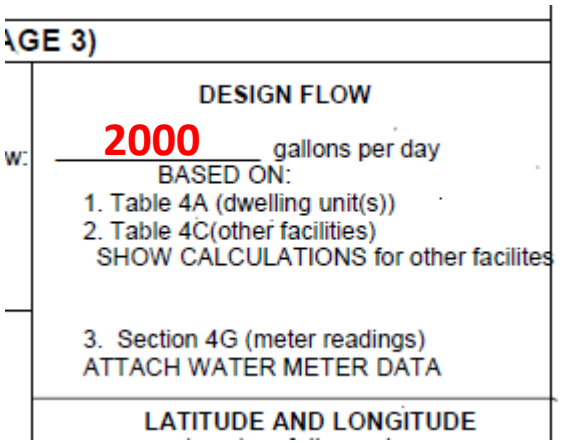
>> CAUTION: LPI APPROVAL REQUIRED <<

OWNER/APPLICANT INFORMATION

PERMIT INFORMATION

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

SITE EVALUATOR STATEMENT



(AGE 3)

DESIGN FLOW

2000 gallons per day

BASED ON:

1. Table 4A (dwelling unit(s))
2. Table 4C(other facilities)

SHOW CALCULATIONS for other facilites

3. Section 4G (meter readings)

ATTACH WATER METER DATA

LATITUDE AND LONGITUDE

EACH BEDROOM = 90 GPD

MINIMUM 2-BEDROOM DESIGN = 180 GPD

23 - BEDROOMS X 90 GPD = 2,070

SECTION 5
APPLICATION FOR DISPOSAL SYSTEM PERMIT

All Fields/Signatures Completed

Current Forms are on the Webpage

https://www.maine.gov/dhhs/mecdc/environmental-health/plumb/policies/policy03.htm

APPLICATIONS NEED TO BE LEGIBLE – IF THERES A MISTAKE USE WHITE OUT/CORRECTION TAPE

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

X 1. Concrete
X a. Regular
b. Low Profile
2. Plastic
3. Other: _____
CAPACITY: 1000 GAL.

DISPOSAL FIELD TYPE & SIZE

1. Stone Bed 2. Stone Trench
3. Proprietary Device
a. cluster array c. Linear
b. regular load d. H-20 load
4. Other: _____
SIZE: _____ sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT

1. No 2. Yes 3. Maybe
If Yes or Maybe, specify one below:
a. multi-compartment tank
b. ___ tanks in series
c. increase in tank capacity
d. Filter on Tank Outlet

DESIGN FLOW

270 gallons per day
BASED ON:
1. Table 4A (dwelling unit(s))
2. Table 4C(other facilities)
SHOW CALCULATIONS for other facilites

3. Section 4G (meter readings)
ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION
3 / C
at Observation Hole # 1
Depth 20"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING

1. Medium---2.6 sq. ft. / gpd
X 2. Medium---Large 3.3 sq. f.t / gpd
3. Large---4.1 sq. ft. / gpd
4. Extra Large---5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP

1. Not Required
2. May Be Required
3. Required

Specify only for engineered systems:
DOSE: _____ gallons

LATITUDE AND LONGITUDE

at center of disposal area
Lat. xx d xx m xx s
Lon. xx d xx m xx s
if g.p.s, state margin of error: x

SITE EVALUATOR STATEMENT

I certify that on xx/xx/xxxx (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Xxxxxxxxxxxxxxx Xxxxxxxxxxx	xxx	xx/xx/xxxx
Site Evaluator Signature	SE #	Date
Xxxxxxxxxxxxxxx Xxxxxxxxxxx	xxx-xxx-xxxx	xxxxxxxxxxx@gmail.com
Site Evaluator Name Printed	Telephone Number	E-mail Address

Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

Property lines

Structure's Roadway's Wells System

Observation Holes

Site location map

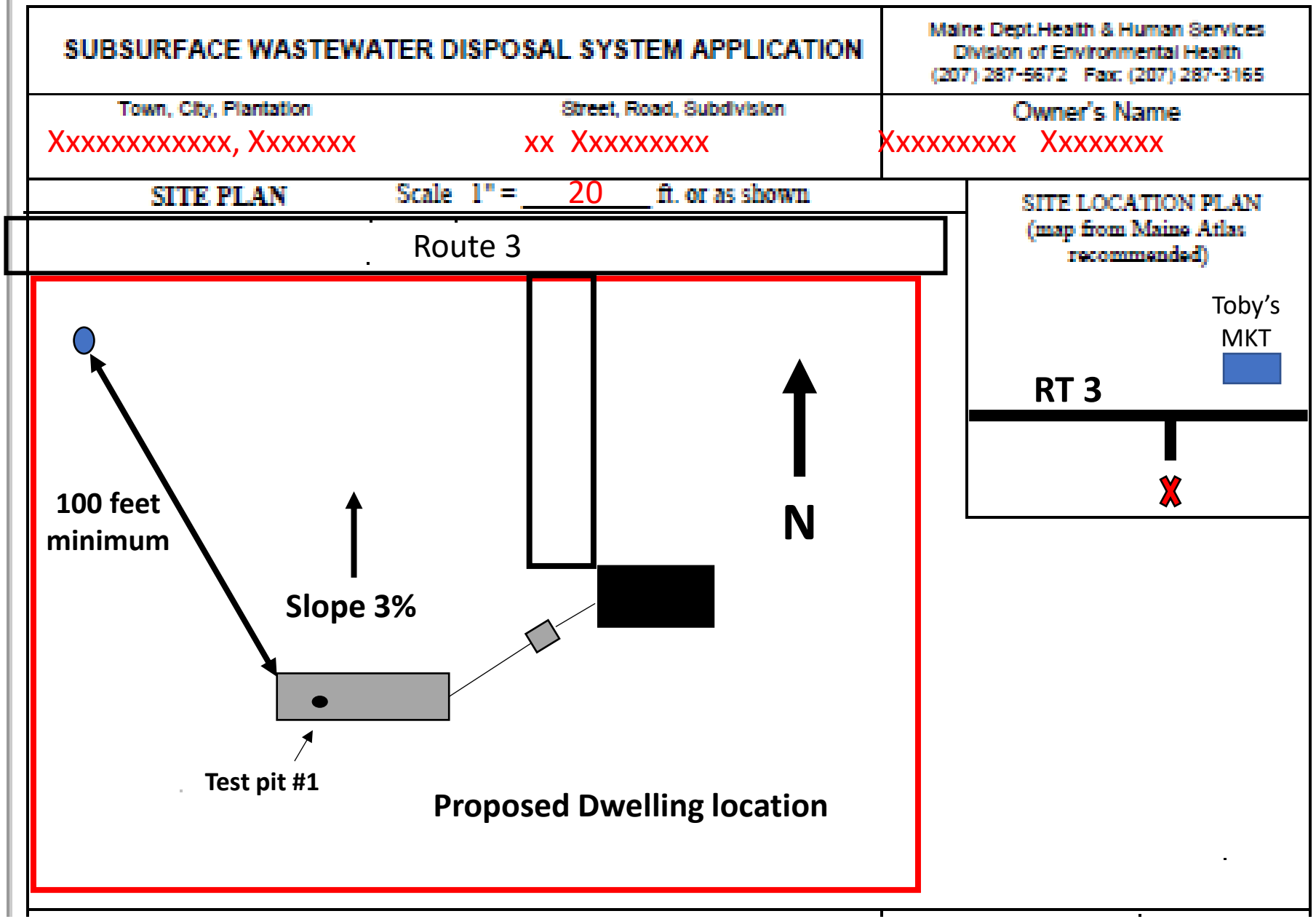
North Arrow

Waterbodies-wetlands (if present)

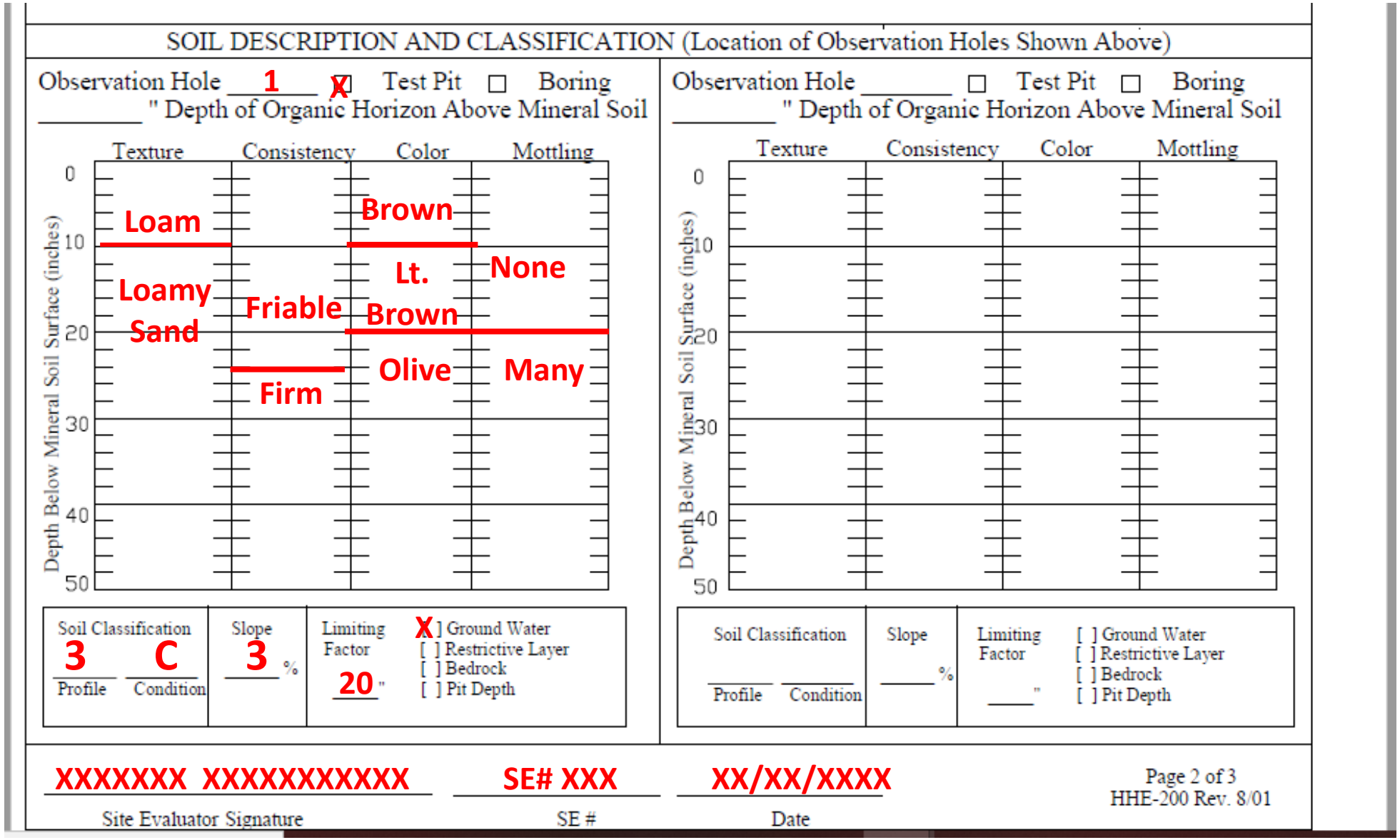
Existing system (if replacement)

Slope with direction

Water diversions



Soil profile description and limiting factor



SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole 1 [X] Test Pit [ ] Boring

" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	Loam		Brown	
10–20	Loamy Sand	Friable	Lt. Brown	None
20–30				
30–40		Firm	Olive	Many
40–50				

Soil Classification	Slope	Limiting Factor	
Profile: 3 Condition: C	3 %	20 "	[X] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth

Observation Hole _____ [ ] Test Pit [ ] Boring

" Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–50				

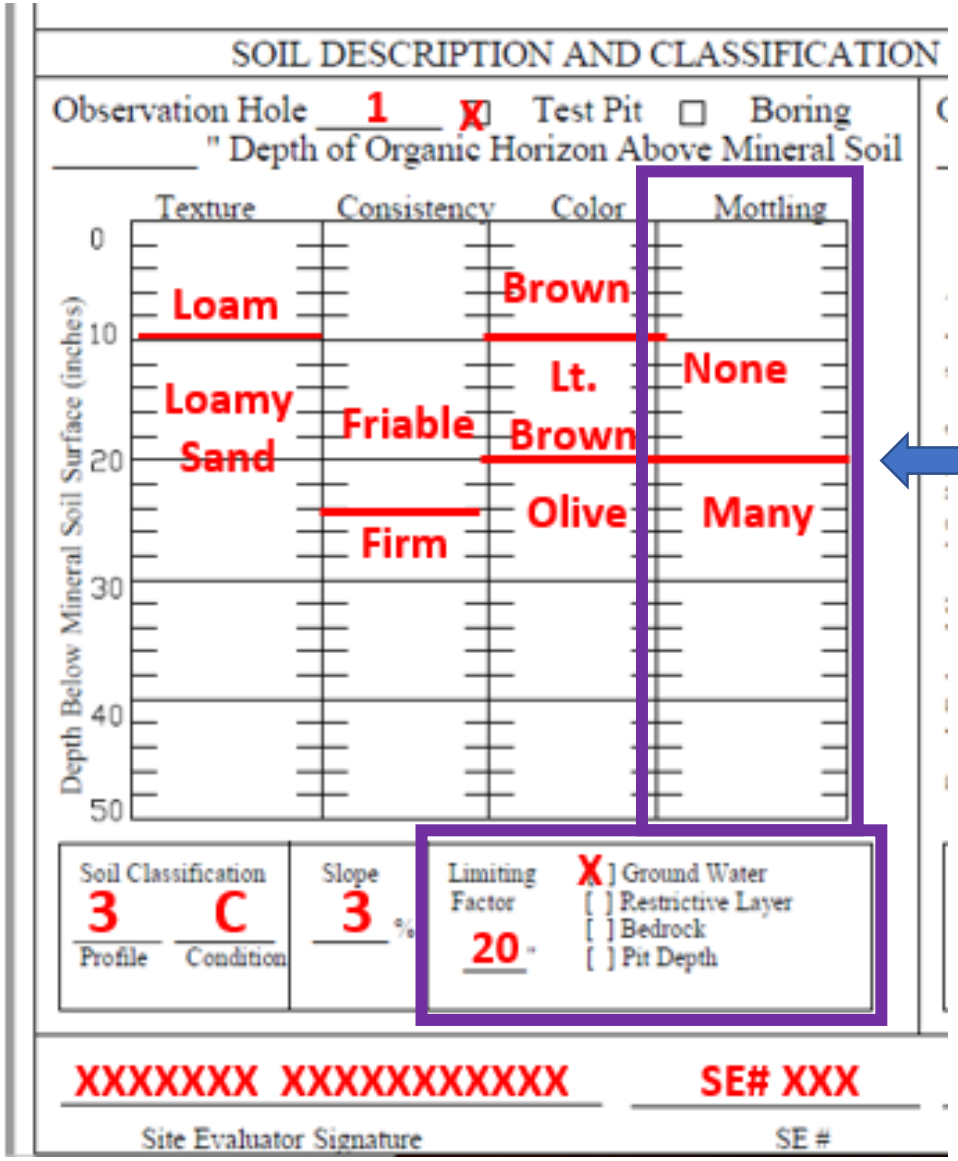
Soil Classification	Slope	Limiting Factor	
Profile: _____ Condition: _____	_____ %	_____ "	[ ] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth

XXXXXXX XXXXXXXXXXX — Site Evaluator Signature

SE# XXX — SE #

XX/XX/XXXX — Date

Page 2 of 3
HHE-200 Rev. 8/01



Mottling:

A color pattern observed in soil consisting of blotches or spots of contrasting color.


CAUTION CAUTION CAUTION

Soil Classification		2	Limiting Factor	
3	C	3 %	20 "	[X] Ground Water [ ] Restrictive Layer [ ] Bedrock [ ] Pit Depth
Profile	Condition			

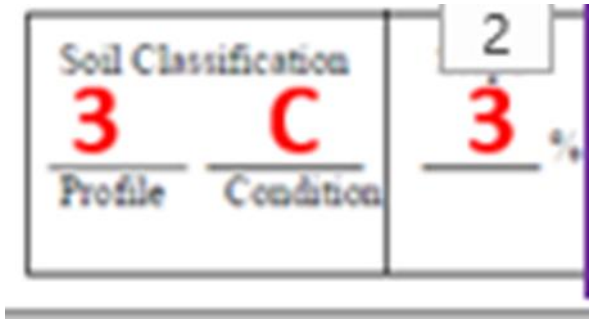
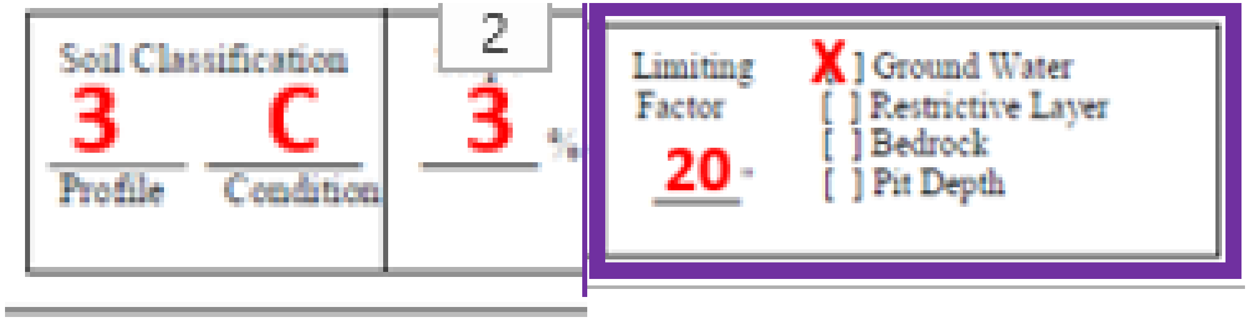


Table 4F – Page 33

First Time & Expanded Systems Outside of the Shoreland Area: Separation in Inches								
Soil Profile ➘	Soil Condition ➘	AI	AII	AIII	B	C	D	E
1, 2, 3, 4, 7, 8, 9		Variance Required: Minor Expansions; [d] 24	24	24	12	12	18	Variance Required: Minor Expansions; [d] 24
5,6		Variance Required: Minor Expansions; [d] 24	24	24	24	24	24	Variance Required: Minor Expansions; [d] 24
10		Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed	Not Allowed
11, 12		Use Tables 4D and 4E to determine the soil profile and description which best describes the observed conditions.						



12” SEPARATION
FROM LIMITING FACTOR
TO BOTTOM OF BED

Location and type

Shoulders & fill extension limits

Original ground elevations

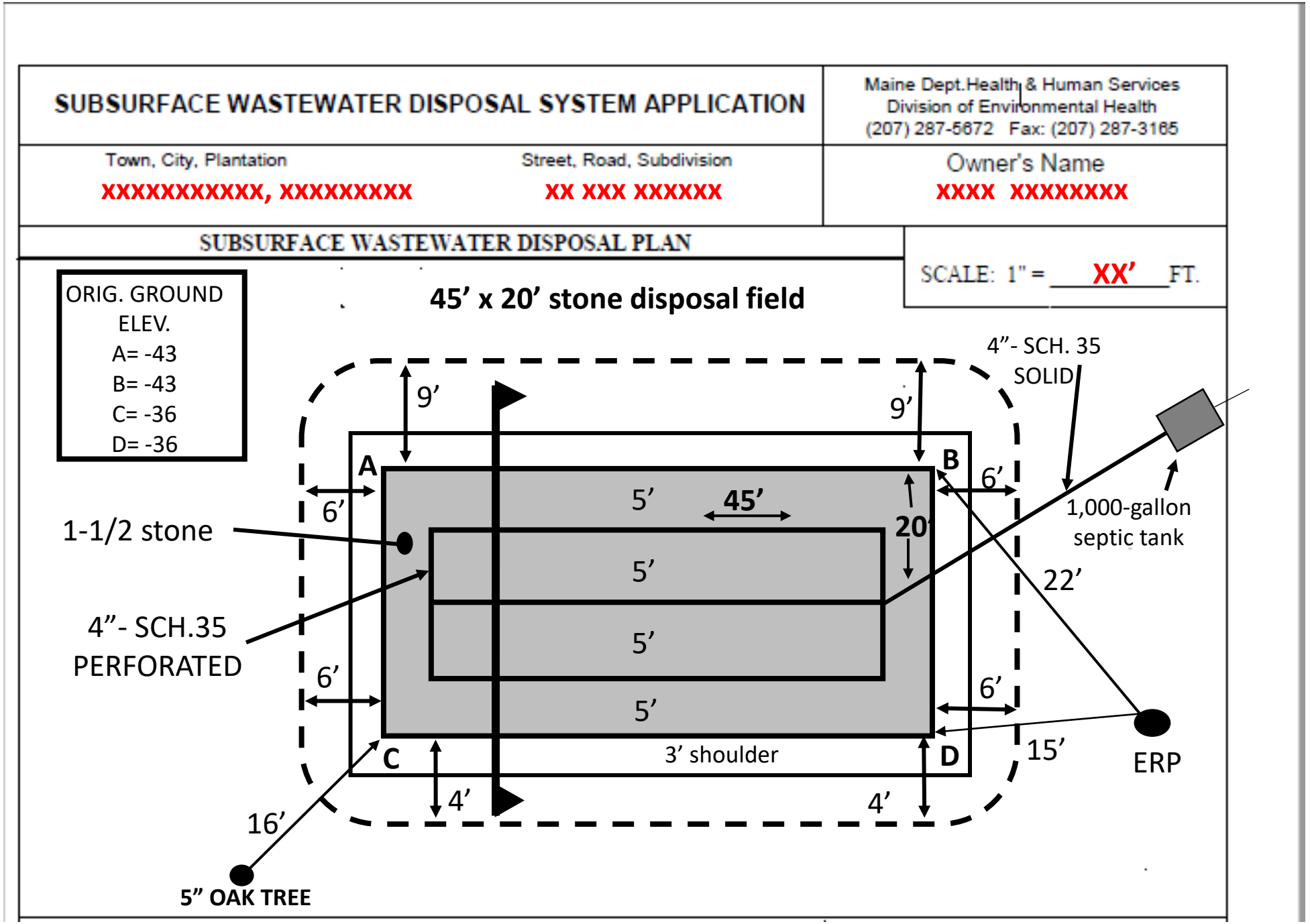
ERP set at 0”

System ties – 3 measurements from 2 or more ref. points or 2 measurements with compass bearings

Cross sec. line

Length & width of disposal field

Pipes & on center spacing



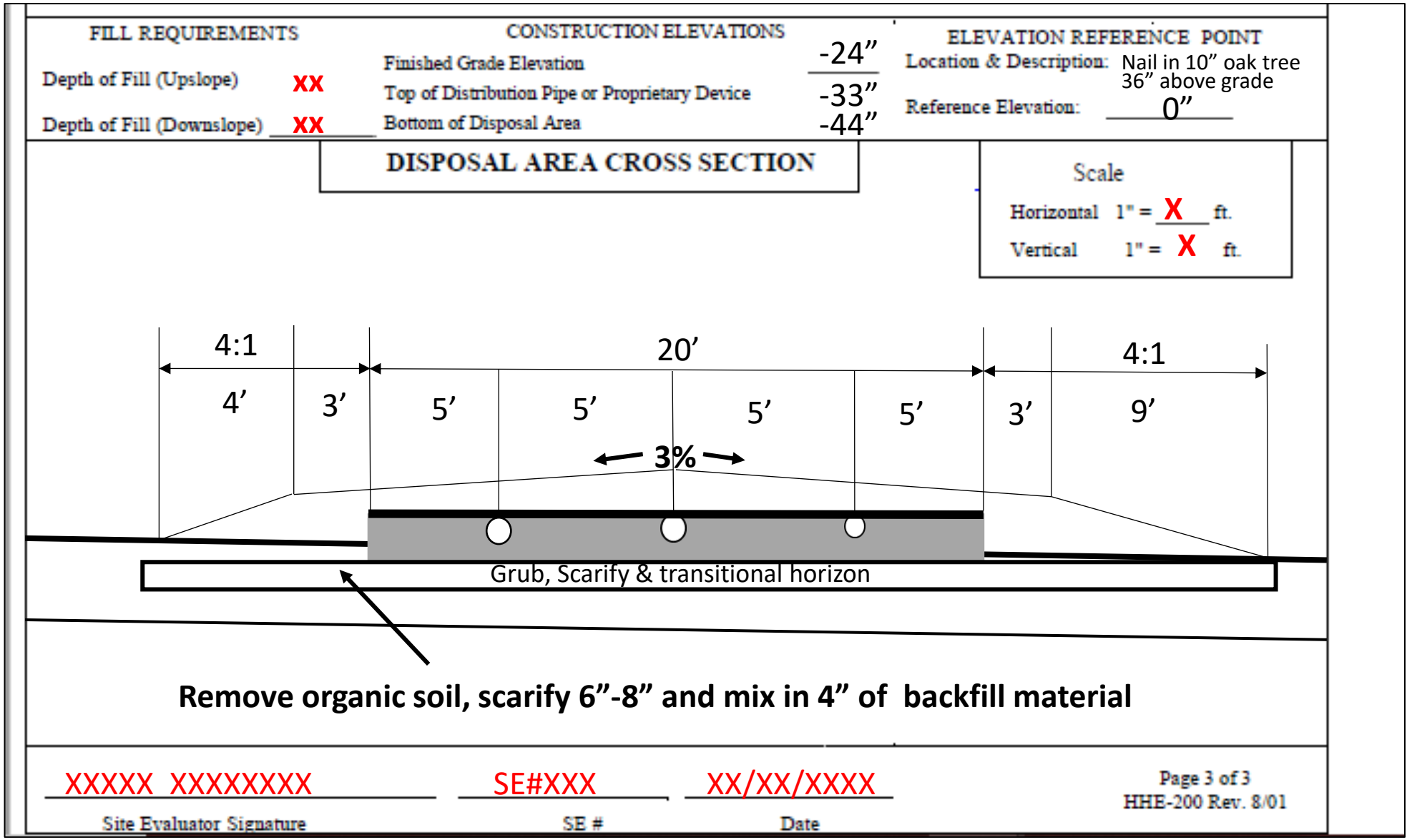
Depth of fill material

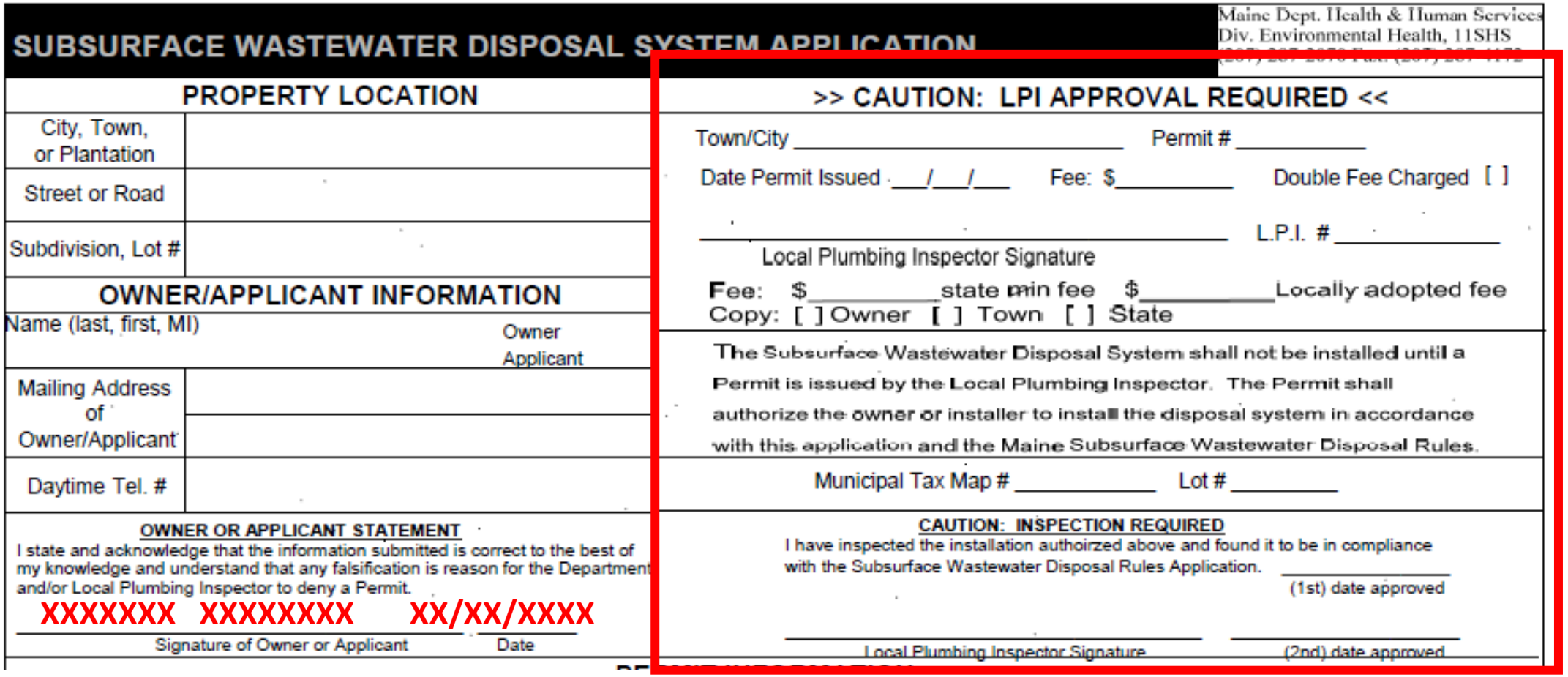
Construction elevations

ERP
Location
Description
Distance in inches above ground

Fill, crown slope
Shoulders with dimensions

Original ground surface with notes for site preparation including scarification and transitional horizon





SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept. Health & Human Services
Div. Environmental Health, 11SHS

PROPERTY LOCATION

City, Town, or Plantation	
Street or Road	
Subdivision, Lot #	

OWNER/APPLICANT INFORMATION

Name (last, first, MI) — Owner / Applicant

Mailing Address of Owner/Applicant	
Daytime Tel. #	

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

XXXXXXX XXXXXXXX XX/XX/XXXX

Signature of Owner or Applicant — Date

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City _____ Permit # _____

Date Permit Issued ___/___/___ Fee: $_____ Double Fee Charged [ ]

_____ L.P.I. # _____

Local Plumbing Inspector Signature

Fee: $_____ state min fee $_____ Locally adopted fee

Copy: [ ] Owner [ ] Town [ ] State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # _____ Lot # _____

CAUTION: INSPECTION REQUIRED

I have inspected the installation authoirzed above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved

_____ Local Plumbing Inspector Signature

_____ (2nd) date approved

MUST BE SIGNED BEFORE PERMITTING
ALONG WITH ALL VARIANCE FORMS

Late permit fee:

A person who starts construction without first obtaining a disposal system permit must pay double the permit fee indicated in Table 4A.The Department will collect 25% of the standard minimum fee only, as stipulated in the fee schedule.

Complete non-engineered system = $250.00 + $15.00-DEP

$250.00 x 2 = $500.00

Covering of work:

No part of a system may be backfilled until it has been inspected and approved. If any part is covered before being inspected and approved, it must be uncovered at the discretion of LPI and at the expense and risk of the owner.

COVERING
OF
WORK??

Outside shower being piped into the existing disposal field

NOT SCARIFIED

OVERLOADED

TRY AND SPOT THE MALFUNCTION

Section 5(A)(11)

Wastewater disposal: Any wastewater, as defined in this rule, must be disposed of by one of the following methods:

a. **On-site disposal:** A subsurface wastewater disposal system designed, installed, and used in accordance with this rule;

b. **Public sewer:** A public sewer system; or

c. Licensed discharge: A wastewater discharge system licensed by the Maine Department of Environmental Protection.

INTERNAL PLUMBING INFOMERCIAL

IF YOU WANT HOT WATER

SECTION 2. INTRODUCTION

A. GENERAL

1. Scope: This rule governs the general regulation of all subsurface wastewater systems. No person may erect a structure that requires a subsurface wastewater disposal system until documentation has been provided to the municipal officers that the disposal system can be constructed in compliance with this rule.

How do you know if its in compliance with the current rule?

You review the application and make sure all variances are approved

NEW RULES AS OF
September 23, 2023

https://www.maine.gov/dhhs/mecdc/environmental-health/plumb/rules.htm

Bedroom (detached)
means any room in an accessory structure with no kitchen, kitchen appliances or fixtures generally found in a kitchen (like stove, microwave, hot plate, sink, etc.) and that primarily serves as sleeping quarters in accordance with Section 5 of this rule.

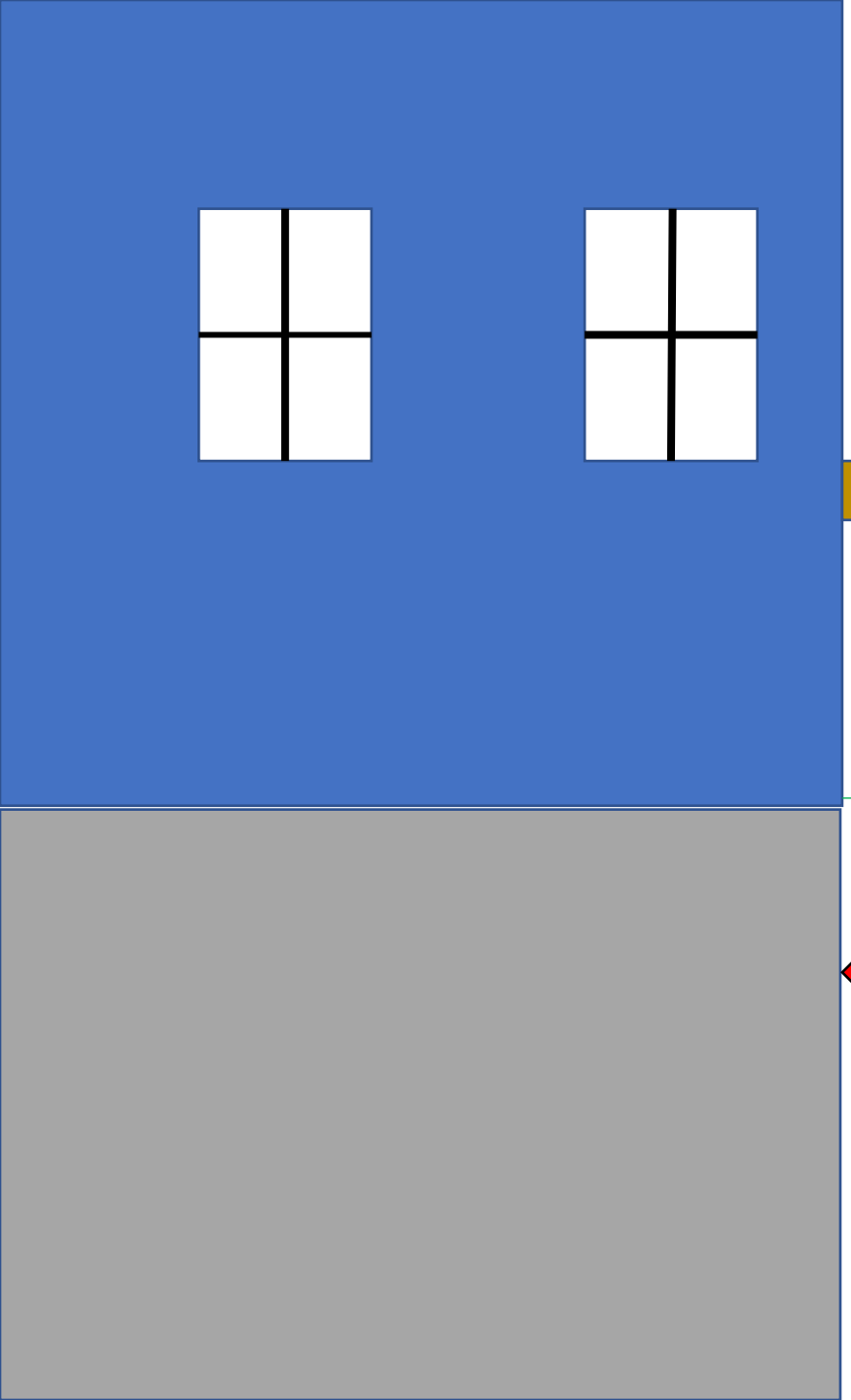
SECTION 5. DESIGN CRITERIA

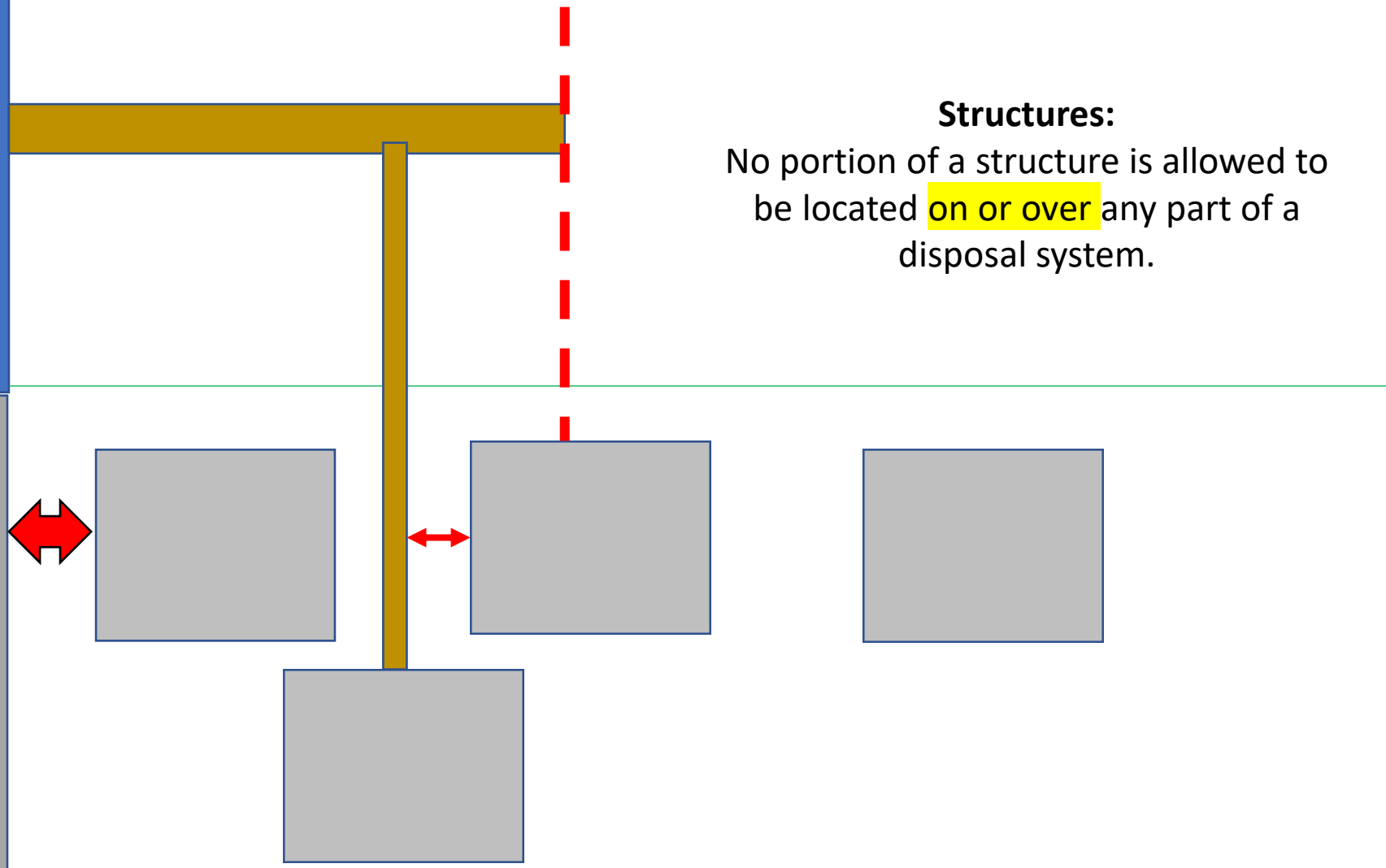
SECTION 2. INTRODUCTION
D. PROHIBITIONS - #4

Structures:

No portion of a structure is allowed to be located on or over any part of a disposal system.

	FIRST TIME	REPLACEMENT
SEPTIC TANK TO FULL BASEMENT =	8’	8 down to 5’’
SEPTIC TANK TO NO FULL BASEMENT = (SLAB-COLUMN-POST)	8’	8’ down to 5’





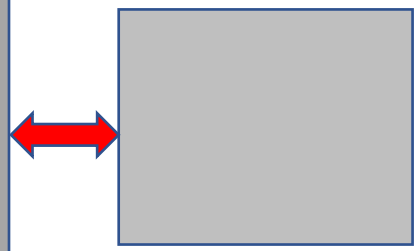
Structures:
No portion of a structure is allowed to be located on or over any part of a disposal system.

WHATS THE CLOSEST SETBACK DISTANCE A SEPTIC TANK MAY BE FROM A FULL BASEMENT WITH A VARIANCE?

2’

WHY?

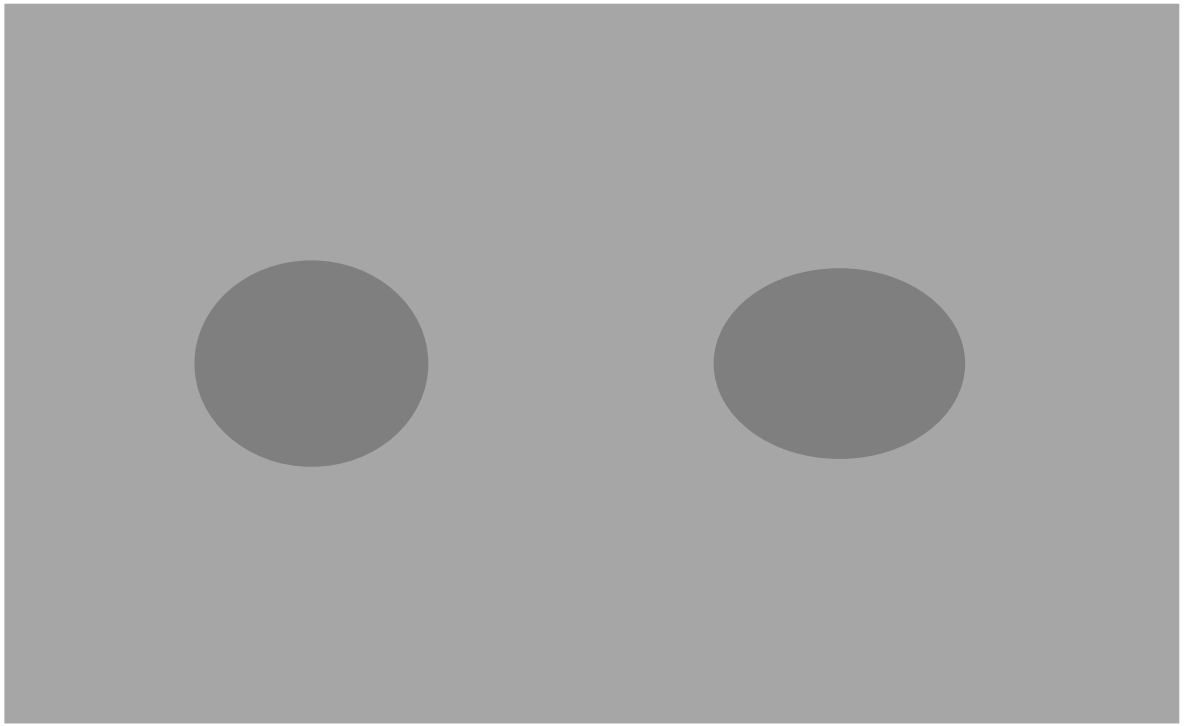
2 FEET IS WHERE INTERNAL PLUMBING ENDS



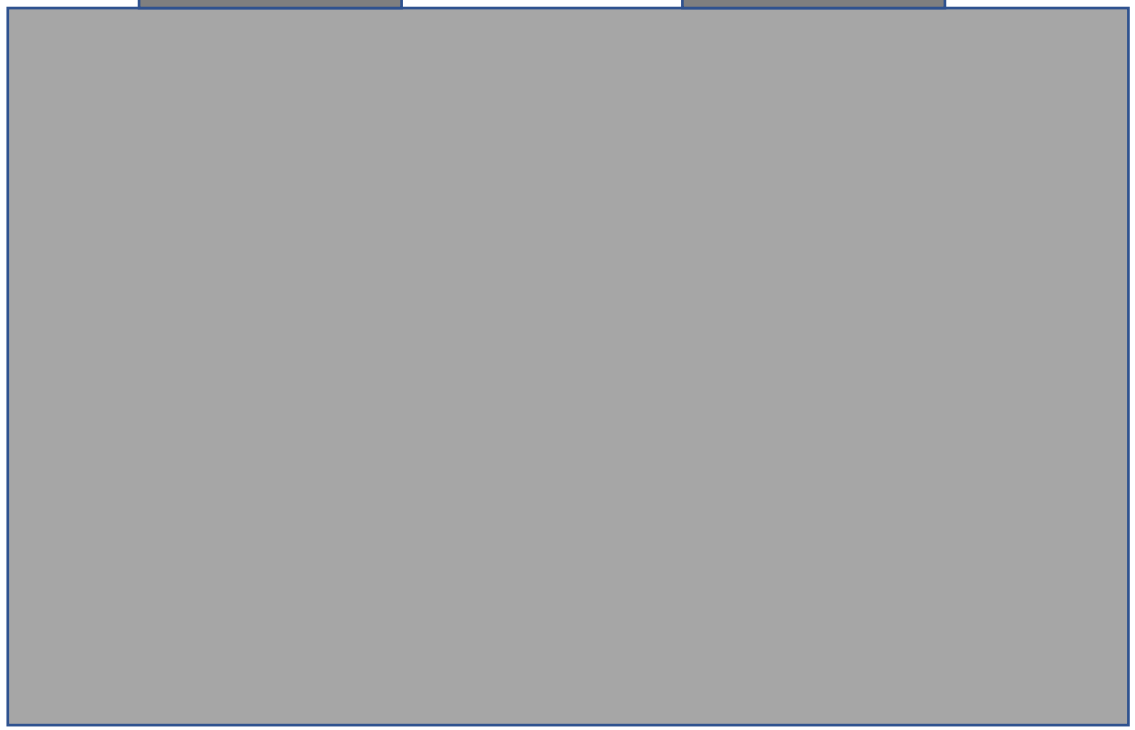
Anti-flotation:

The site evaluator must include in the design provisions to prevent the tanks from floating, if empty.

2023
Highlighted Rule Changes



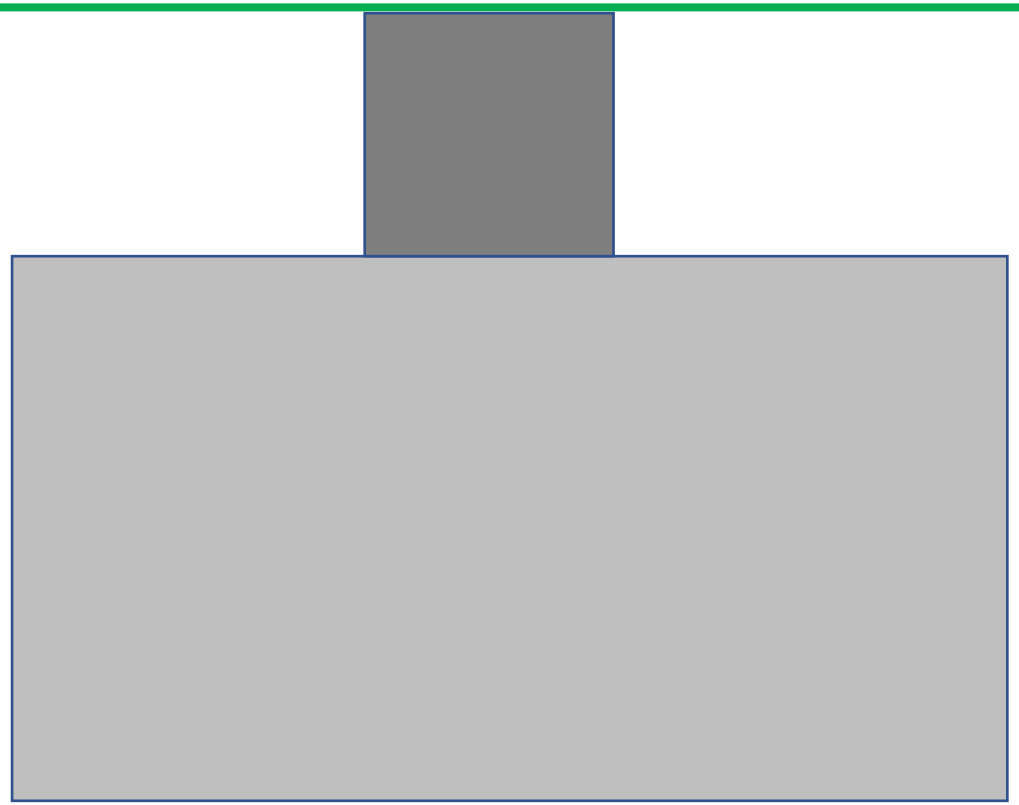
OR



Other facilities:

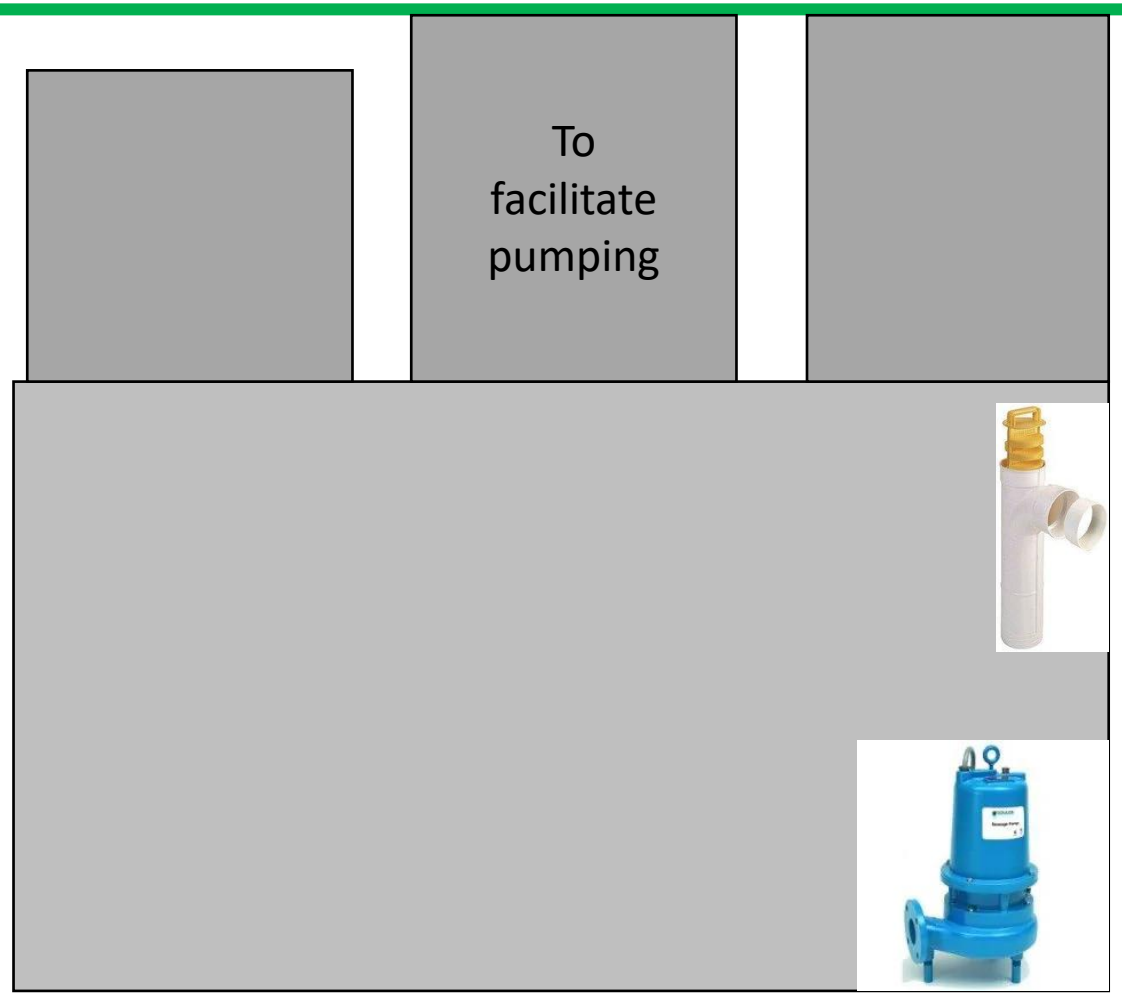
Access to all septic tanks serving facilities other than single family dwellings must be located at grade as described in this Section. Grade must slope away from the openings.

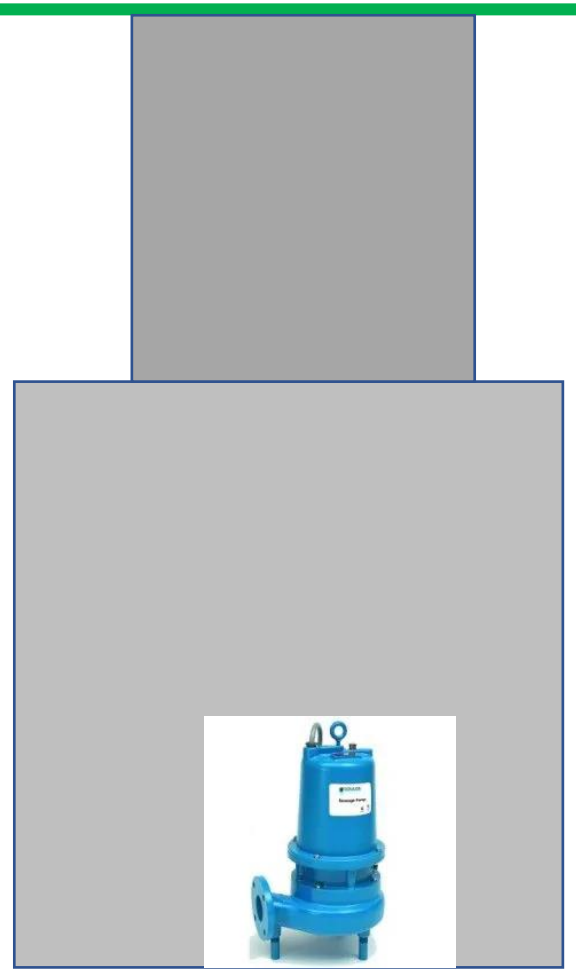
THIS INCLUDES GREASE INTERCEPTORS
AND
PRE-TREATMENT TANKS



RISER TO FACILITATE PUMPING

The pump station riser is required to extend to finished grade.
Outlet baffles that utilize an effluent filter must have a riser extended to finish grade.
Other risers may terminate to within 6 inches of finished grade.





PUMP STATION

SEASONAL CONVERSION

IS NOW IN THE MAIN BODY OF THE CODE

Page 93

The LPI may issue a Seasonal Conversion Permit for any structure served by a subsurface wastewater disposal system that meets replacement system criteria as set forth in Section 9, including any variances granted pursuant to Section 14 (local variances).

(Limit of the LPI's authority)

Local variances only

HOLDING TANKS PROHIBITED

EXISITING LEGAL SYSTEM, PERMIT/INSPECTION

PUBLIC SEWER

100 feet
LPI can approve down to 60 feet

LOCAL VARIANCE

9(F) WORK ADJACENT TO OR WITHIN WETLANDS AND WATER BODIES (cont.)

TABLE 9A
Setback Distances for Replacement System, Limits of LPI Authority

Site features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)		
	Less than 1,000 gpd	1,000 to 1,999 gpd	2,000 gpd or over	Less than 1,000 gpd	1,000 to 1,999 gpd	2,000 gpd or over
Wells with water usage of 2,000 or more gpd or public water supply wells	300 feet	300 feet	300 feet	150 feet	150 feet	150 feet
Potable supply well	100 down to 60 feet	200 down to 100 feet	300 down to 150 feet	50 down to 25 feet [a]	100 down to 50 feet [a]	100 down to 50 feet
Water supply line	10 feet	20 feet	25 feet	10 feet	10 feet	10 feet
Water course, major [c]	100 down to 50 feet	200 down to 120 feet	300 down to 180 feet	100 down to 25 feet [a]	100 down to 50 feet	100 down to 50 feet
Water course, minor [c]	50 down to 25 feet	100 down to 50 feet	150 down to 75 feet	50 down to 25 feet	50 down to 25 feet	50 down to 25 feet
Drainage ditches	25 down to 12 feet	50 down to 25 feet	75 down to 35 feet	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet
Slopes greater than 3:1	10 feet	18 feet	25 feet	N/A	N/A	N/A
No full basement [e.g. slab, columns, posts]	15 down to 7 feet	30 down to 15 feet	40 down to 20 feet	8 down to 5 feet	14 down to 7 feet	20 down to 10 feet
Full basement [below grade foundation, frost wall]	20 down to 10 feet	30 down to 15 feet	40 down to 20 feet	8 down to 5 feet	14 down to 7 feet	20 down to 10 feet
Property lines	10 down to 5 feet [b]	18 down to 9 feet [b]	20 ft down to 10 ft [b]	10 down to 4 feet [b]	15 down to 7 feet [b]	20 down to 10 feet [b]
Burial sites or graveyard boundaries, measured from the toe of the fill extension	25 feet	25 feet	25 feet	25 feet	25 feet	25 feet
Stormwater infiltration systems	100 down to 60 feet	200 down to 120 feet	300 down to 180 feet	100 down to 50 feet	100 down to 50 feet	100 down to 50 feet
Wetponds, retention ponds, and detention basins (excavated below grade); Soil filters, underdrained swales, underdrained outlets, and similar structures	50 down to 25 feet [d]	100 down to 50 feet [d]	150 down to 75 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]
Stormwater detention basins (basin bottom at, or above, predevelopment grade)	25 down to 12 feet	50 down to 25 feet [d]	75 down to 35 feet [d]	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet

Notes:
[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 7(H)(8) or of monolithic construction.
[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.
[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major or minor water body/course must comply with this rule pertaining to work adjacent to or within wetlands and water bodies (for more details, see Section 13).
[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.

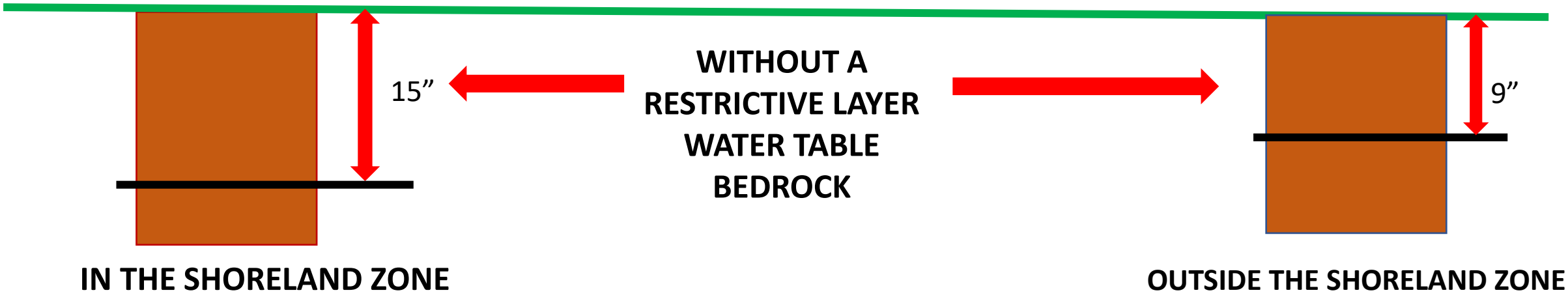
A VARIANCE THAT DEALS WITH SOILS IS AN AUTOMATIC STATE VARIANCE

REQUIREMENT

IN THE SHORELAND ZONE 15 INCHES OF SOIL IS NEEDED

OUT OF THE SHORELAND ZONE 9 INCHES IS NEEDED

IF THE SE FINDS SOIL DEPTH LESS THAN THE REQUIREMENT, SEASONAL CONVERSION CAN NOT BE ACHIEVED

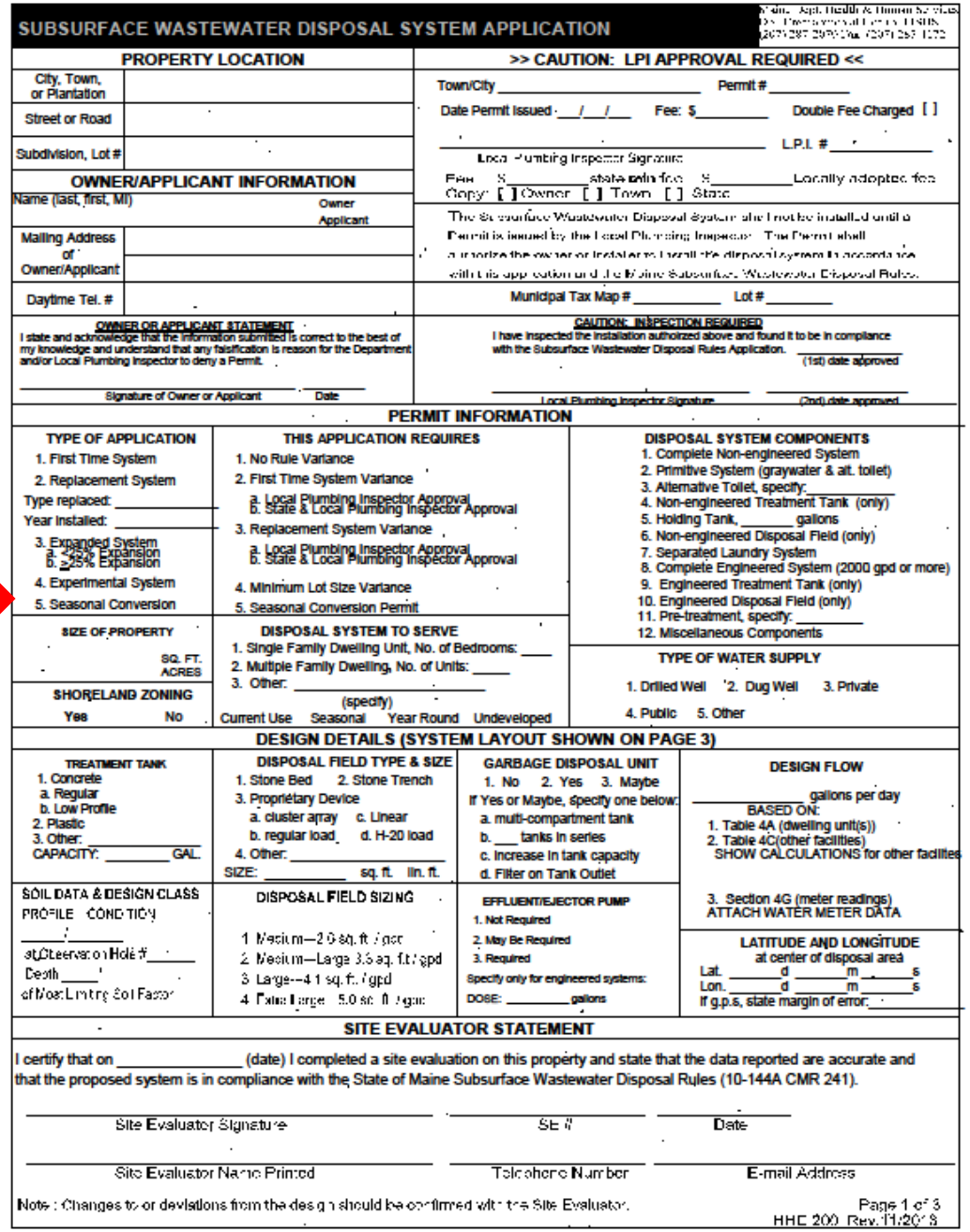


SEASONAL CONVERSION IS A SEPARATE PERMIT

CANNOT BE COMBINED WITH ANY OTHER PERMIT

FEE SCHEDULE

	FEE	STATE 25%
Seasonal conversion permit	$50.00	$12.50



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

PROPERTY LOCATION

City, Town, or Plantation

Street or Road

Subdivision, Lot #

OWNER/APPLICANT INFORMATION

Name (last, first, MI) Owner Applicant

Mailing Address of Owner/Applicant

Daytime Tel. #

OWNER OR APPLICANT STATEMENT

I state and acknowledge that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.

Signature of Owner or Applicant Date

>> CAUTION: LPI APPROVAL REQUIRED <<

Town/City Permit #

Date Permit Issued ___/___/___ Fee: $ Double Fee Charged [ ]

Local Plumbing Inspector Signature L.P.I. #

Fee: $ state-mandated fee $ Locally adopted fee

Copy: [ ] Owner [ ] Town [ ] State

The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.

Municipal Tax Map # Lot #

CAUTION: INSPECTION REQUIRED

I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.

(1st) date approved

Local Plumbing Inspector Signature (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION

1. First Time System
2. Replacement System

Type replaced:

Year Installed:

3. Expanded System
   a. <25% Expansion
   b. ≥25% Expansion
4. Experimental System
5. Seasonal Conversion

THIS APPLICATION REQUIRES

1. No Rule Variance
2. First Time System Variance
   a. Local Plumbing Inspector Approval
   b. State & Local Plumbing Inspector Approval
3. Replacement System Variance
   a. Local Plumbing Inspector Approval
   b. State & Local Plumbing Inspector Approval
4. Minimum Lot Size Variance
5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS

1. Complete Non-engineered System
2. Primitive System (graywater & alt. toilet)
3. Alternative Toilet, specify:
4. Non-engineered Treatment Tank (only)
5. Holding Tank, gallons
6. Non-engineered Disposal Field (only)
7. Separated Laundry System
8. Complete Engineered System (2000 gpd or more)
9. Engineered Treatment Tank (only)
10. Engineered Disposal Field (only)
11. Pre-treatment, specify:
12. Miscellaneous Components

SIZE OF PROPERTY

SQ. FT. ACRES

SHORELAND ZONING

Yes No

DISPOSAL SYSTEM TO SERVE

1. Single Family Dwelling Unit, No. of Bedrooms:
2. Multiple Family Dwelling, No. of Units:
3. Other: (specify)

Current Use Seasonal Year Round Undeveloped

TYPE OF WATER SUPPLY

1. Drilled Well 2. Dug Well 3. Private
4. Public 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK

1. Concrete
   a. Regular
   b. Low Profile
2. Plastic
3. Other:

CAPACITY: GAL.

DISPOSAL FIELD TYPE & SIZE

1. Stone Bed 2. Stone Trench
3. Proprietary Device
   a. cluster array c. Linear
   b. regular load d. H-20 load
4. Other:

SIZE: sq. ft. lin. ft.

GARBAGE DISPOSAL UNIT

1. No 2. Yes 3. Maybe

If Yes or Maybe, specify one below:

a. multi-compartment tank
b. tanks in series
c. Increase in tank capacity
d. Filter on Tank Outlet

DESIGN FLOW

gallons per day

BASED ON:

1. Table 4A (dwelling unit(s))
2. Table 4C(other facilities)
   SHOW CALCULATIONS for other facilities
3. Section 4G (meter readings)
   ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS

PROFILE CONDITION

Observation Hole #

Depth

Most Limiting Soil Factor

DISPOSAL FIELD SIZING

1. Medium—2.0 sq. ft./gpd
2. Medium—Large 3.5 sq. ft./gpd
3. Large—4.1 sq. ft./gpd
4. Extra Large 5.0 sq. ft./gpd

EFFLUENT/EJECTOR PUMP

1. Not Required
2. May Be Required
3. Required

Specify only for engineered systems:

DOSE: gallons

LATITUDE AND LONGITUDE

at center of disposal area

Lat. d m s

Lon. d m s

If g.p.s, state margin of error:

SITE EVALUATOR STATEMENT

I certify that on (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Site Evaluator Signature SE # Date

Site Evaluator Name Printed Telephone Number E-mail Address

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

Page 1 of 3

HHE 200 Rev. 11/2018

SECTION 11 E
WASTE DISCHARGE FROM RESIDENTIAL WATER SOFTENERS AND IRON SYSTEMS

ITS ON THE INTERNAL PLUMBING PERMIT

Conditions for alternative disposal approval

SECTION 11 E

PAGE 117

IF WATER TREATMENT UNITS WENT INTO THE SEPTIC SYSTEM, THEY MAY CAUSE

deteriorating the concrete components

premature clogging of filters and proprietary devices

Clog the bottom of the disposal field which may result in a premature malfunction of the system.

The area where the discharge line ends must be capable of receiving and infiltrating all wastewater without flooding

a. Infiltrate all water on-site and not cause erosion, siltation; or a discrete (channelized) runoff;

b. Not discharge to a surface water or wetland;

c. Include water treatment system wastewater only. No discharge of black water, graywater, or laundry water to a separate drywell is permitted;

d. Follow all SSWW first time system criteria setbacks, including 100 feet from potable water supplies and 300 feet from public potable water supplies;

e. Not render groundwater undrinkable on any adjacent properties;

f. Not flow directly into a storm drain system that carries the discharge to a surface water body or into a municipal sewer system. The discharge is allowed directly to a municipal sewer system, only if authorized by the receiving facility;

g. Not impact abutting properties such that the point of daylighted discharge and area of infiltration extend across property boundaries; and

h. Have enough vegetated buffer in the area to infiltrate the discharge and not cause channeling or erosion.

The Municipality reserves the authority under local ordinance to require the treatment unit discharge to empty into a septic system or grey water disposal system.

SECTION 12 F
PAGE 123

Covering the disposal field stone:
The disposal field stone must be covered with a layer of filter fabric, as the laying of the distribution pipes progresses.

fabric must be 4.0 ounces/square yard
(per ASTM D-5261).

NO
MORE…

Short Term Rental means any building, cottage, cabin or other habitable structure that is rented for lodging purposes for a period of time that does not exceed 30 continuous days.

Clarification of Design Flows for Short-Term Rentals:

Maine CDC clarified that the design flow for short-term rentals must be higher than flows listed in Table 5(A). Please refer to Section 5(E)(3)

3. Adjusted Design Flow:

The Site Evaluator will determine the correct design flow for the potential occupancy load of any dwelling or structure per owner's statement. The design flow for short-term rentals must be higher than flows listed in this section. In no case shall the design flow be below the minimum design flows of this section

SECTION 5
I. PRIMITIVE & LIMITED DISPOSAL SYSTEMS

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2. Use of alternative toilets: An alternative toilet must be used if a primitive or limited disposal field is used. An alternative toilet may also be used with a conventional disposal system. Temporary portable toilets are not alternative toilets and shall not be used as permanent alternative toilets.

Temporary portable toilet: means a prefabricated toilet designed for temporary use, typically at social functions, work sites, and outdoor gatherings.

USES THIS AS PRIMARY TOILET

WEE

INBOARD / OUTBOARD

Don’t forget your fishing license

7. Changes to Soil Fill Age Criteria Inside and Outside of the Shoreland Zone:

Maine CDC removed the requirement for soil to be older than July 1, 1974 to be considered equivalent to original soil inside the Shoreland Area, and replaced it with criteria that the fill must be in place for at least 40 years. Please refer to Section 5(B)(6)(a)
If the fill is located outside of the Shoreland Zone, Maine CDC requires that the soil fill must be in place for at least 20 years to be considered equivalent to original soil. Please refer to Section 5(B)(5)(a)-5(B)(6)(a)

8. Removal of Microfiche Permit Search Fees: Maine CDC removed fees for Microfiche permit searches, because the agency no longer offers that service. Permits are now scanned and uploaded to an online permit database. All other fees remain the same. Please refer to: Section 4(C)


DIG SAFE
NOTWC
Private

INSTALLATION IS STARTED

EROSION CONTROL

Grubbing:

The area under the disposal area must have the organic soil horizon removed including but not limited to all stumps and roots.

Disposal Area:

The combination of the disposal field, shoulders and fill extensions.

FILL REQUIREMENTS

Depth of Fill (Upslope)

Depth of Fill (Downslope) _____

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-24”
Top of Distribution Pipe or Proprietary Device	-33”
Bottom of Disposal Area	-44”

ELEVATION REFERENCE POINT

Location & Description: Nail in 10” oak tree 36” above grade

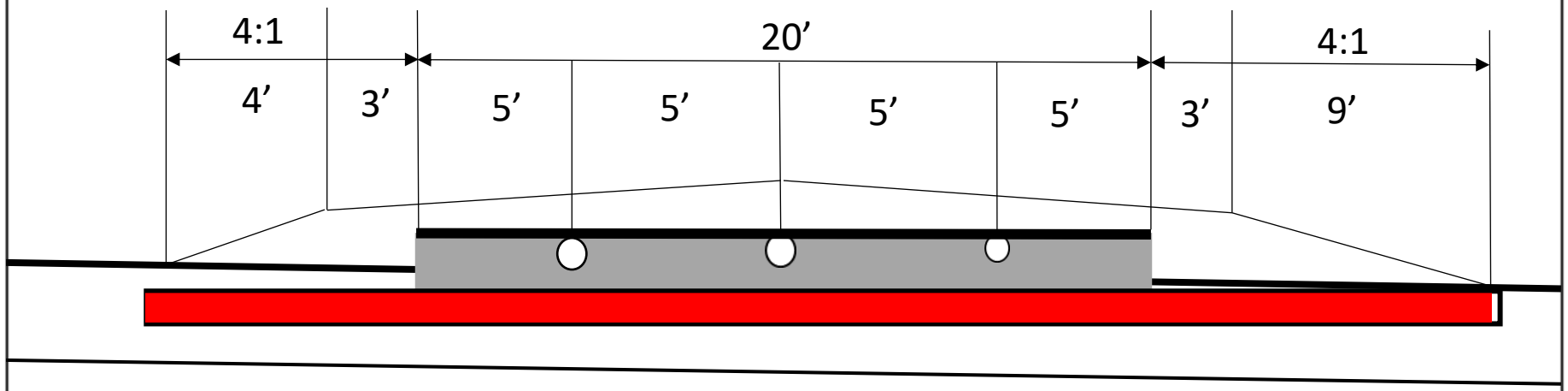
Reference Elevation: 0”

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = X ft.

Vertical 1" = X ft.



XXXXX XXXXXXXX — Site Evaluator Signature

SE#XXX — SE #

XX/XX/XXXX — Date

INSTALLATION IS STARTED

GRUBBING

INSTALLATION IS STARTED

SCARIFICATION

Scarify the site:

The area under the disposal area must be thoroughly roughened. If plowing is used, it must be done parallel to the topographic contour in such a direction that each plow furrow will be thrown up-slope. The soil should be broken up to a depth of 6 to 8 inches. Alternatively, a rototiller or the teeth of a backhoe or frost tooth may be used.

INSTALLATION IS STARTED

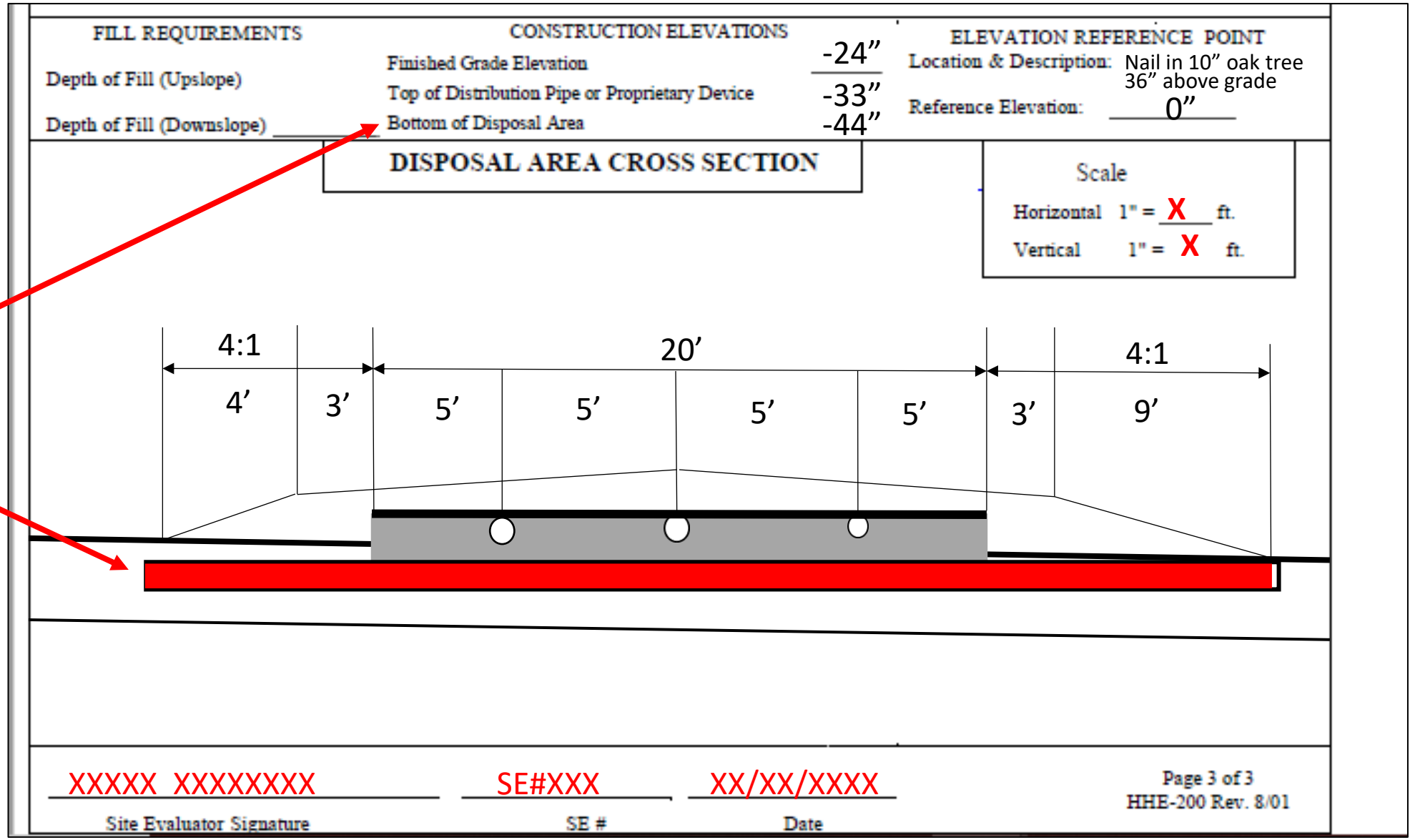
TRANSITIONAL HORIZON

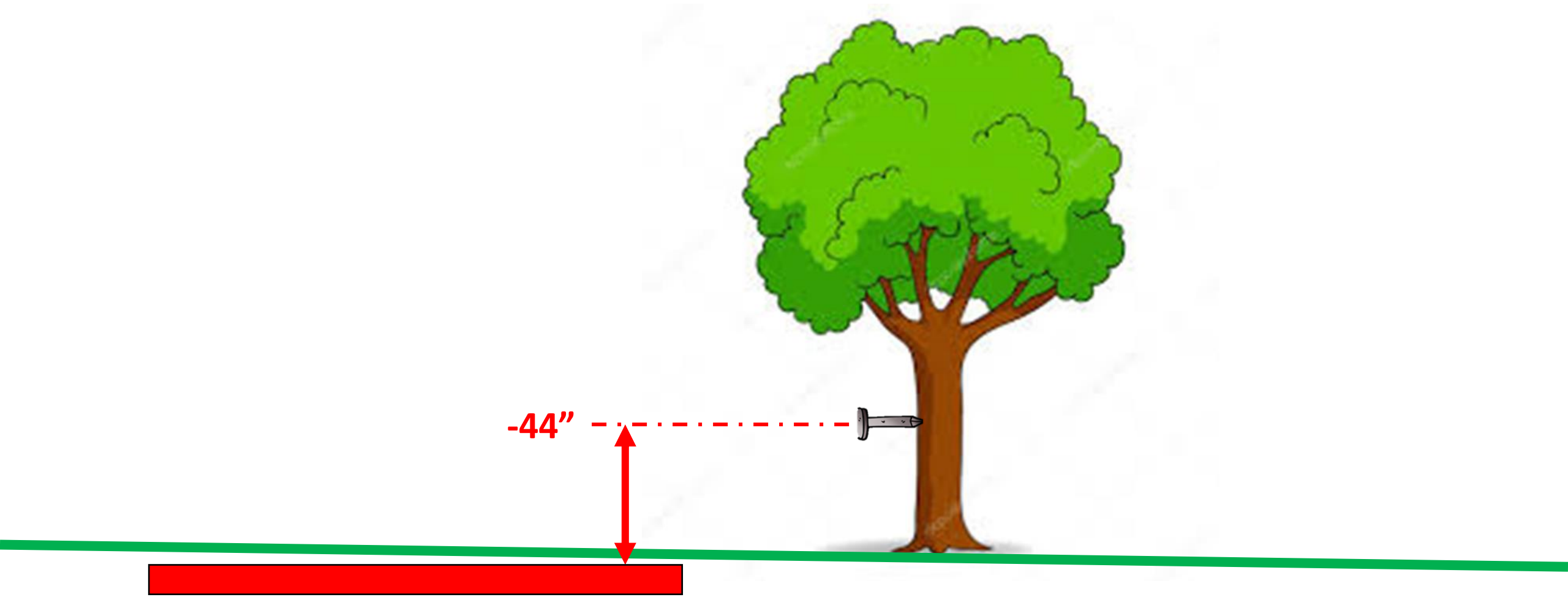
Transitional horizon:

On sites where the backfill material is coarser than the original soil, a minimum of 4 inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the disposal area.


KOBELCO

THIS IS THE BOTTOM OF THE DISPOSAL AREA





Grub, scarification & transitional horizon

Inspection required:
The LPI must make 2 inspections as follows:
#1

After site preparation:

An inspection must be made after site preparation to ascertain that the vegetation has been cut and removed in the disposal field area, **GRUBBING**

the area under the disposal field and backfill extensions has been roughened SCAFIRICATION,

a transitional horizon has been established,

and the erosion and sedimentation control measures are in place.

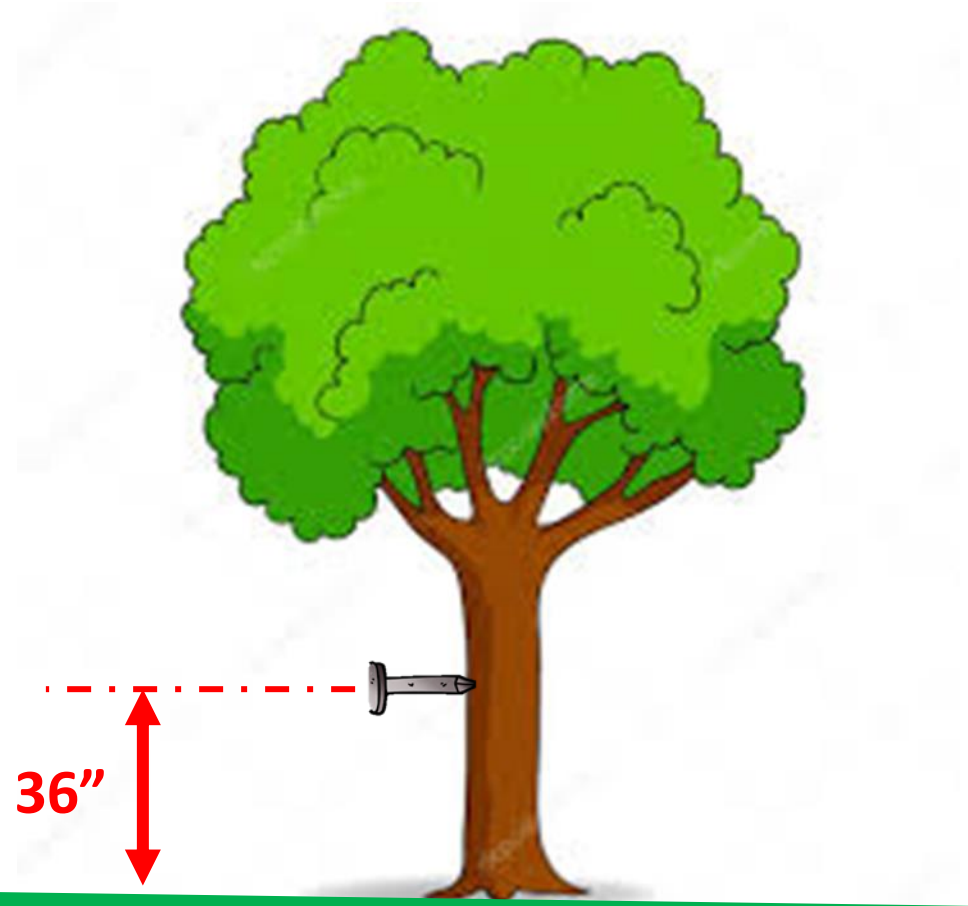
IF A DESIGN HAS “EITHER/OR” ON IT,
AS IN D-BOX OR TEE, CIRCLE THE ONE IN USE

THE LPI ARRIVES ONSITE FOR THE FIRST INSPECTION


CASE

WHAT IS THE FIRST ITEM YOU SHOULD VERIFY WHEN INSTALLING OR INSPECTING?

FIRST THING TO CHECK IS THE ERP



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept.Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation | Street, Road, Subdivision | Owner's Name

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = _____FT.

FILL REQUIREMENTS

Depth of Fill (Upslope) _____

Depth of Fill (Downslope) _____

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-40"
Top of Distribution Pipe or Proprietary Device	-49"
Bottom of Disposal Area	-60"

ELEVATION REFERENCE POINT

Location & Description: 60" up from grade

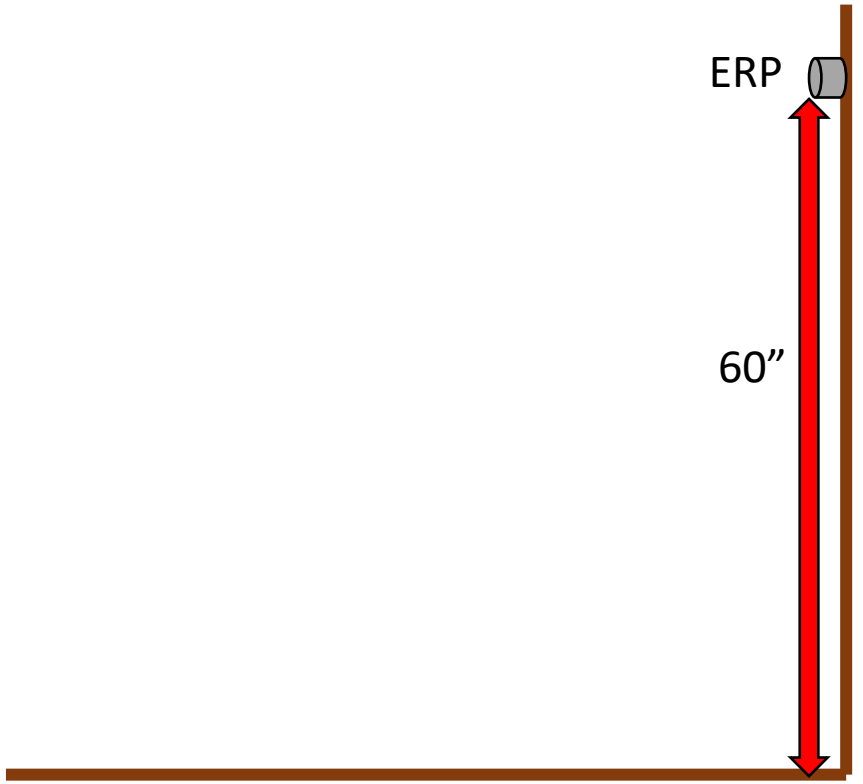
Reference Elevation: 0"

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = ____ ft.

Vertical 1" = ____ ft.



Who can move the ERP?

SITE EVALUATOR

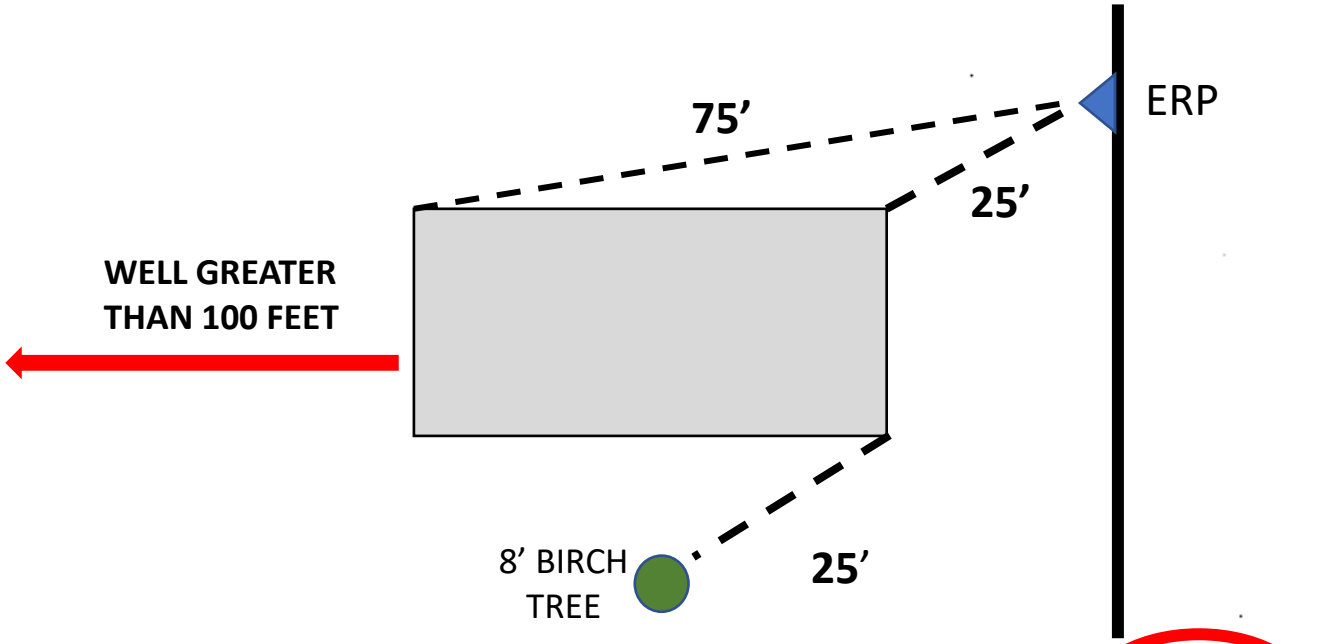
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Dept.Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation | Street, Road, Subdivision | Owner's Name

SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = _____FT.

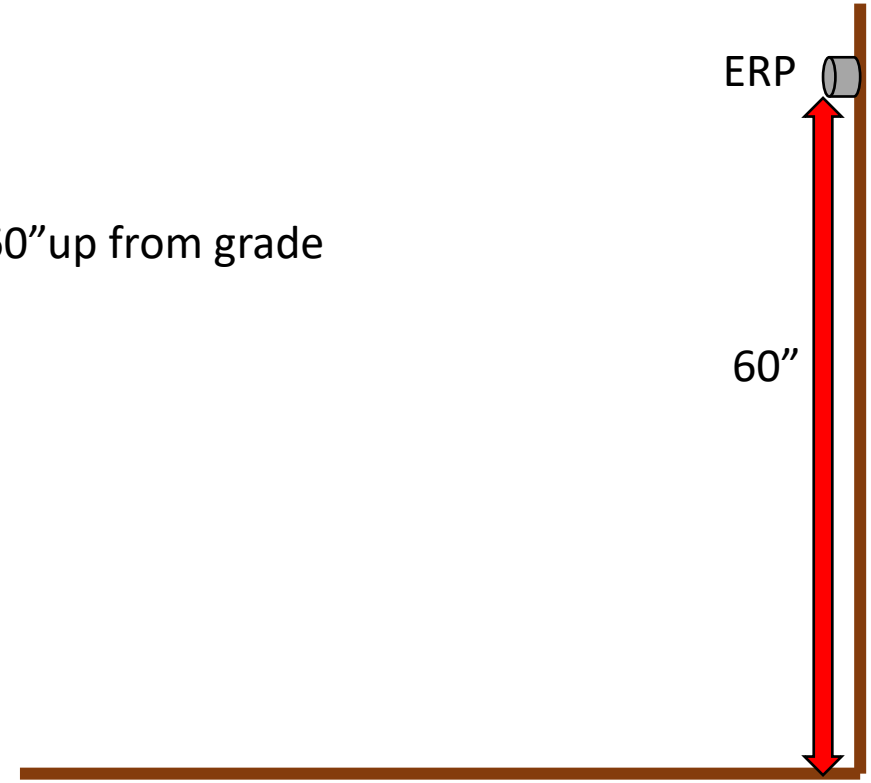


FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope) _____	Finished Grade Elevation	-40"	Location & Description: 60" up from grade
Depth of Fill (Downslope) _____	Top of Distribution Pipe or Proprietary Device	-49"	Reference Elevation: 0"
	Bottom of Disposal Area	-60"	

DISPOSAL AREA CROSS SECTION

Scale
Horizontal 1" = ____ ft.
Vertical 1" = ____ ft.

60"up from grade



Inspection required:

The LPI must perform two inspections as follows:

1ST INSPECTION

After site preparation:

The LPI must inspect the site, after preparation, to ascertain that the vegetation has been cut and removed in the disposal field area, the area under the disposal field and backfill extensions has been roughened, a transitional horizon has been established, and the erosion and sedimentation control measures are in place.

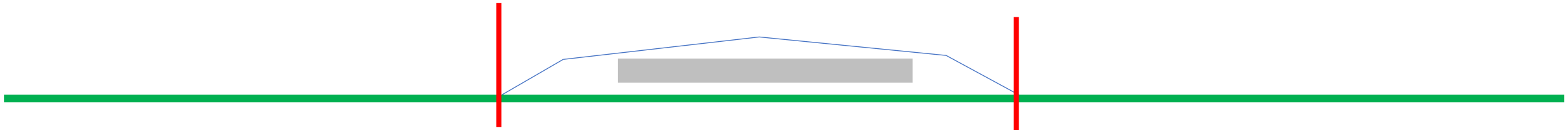
Scarify the site:

The area under the disposal area must be thoroughly roughened. The soil should be broken up to a depth of six to eight inches.

Transitional horizon:

On sites where the backfill material is coarser than the original soil, a minimum of four inches of backfill material must be mixed into the original soil to form a transitional horizon beneath the disposal area.

Disposal area means the combination of the disposal field, shoulders and fill extensions.



DISPOSAL AREA

Preparation for inspection:

When a system is ready for inspection, the installer must make such arrangements as will enable the LPI to inspect all parts of the system. The installer must have present the proper apparatus and equipment for conducting the inspection and shall furnish such assistance as may be necessary in making a proper inspection

Bottom of disposal field:

The bottom of each disposal field must be installed at the elevation specified on the permit. It must be maintained to a level grade no greater than 2 inches within 100 feet.

Note: The bottom of a disposal field serves as the final stage of the distribution network.

Level grade no greater than 1 inch within 50 feet

GRUBBING

SCARIFICATION


KOBELCO

Backfill standards:

The backfill material must be gravelly coarse sand which meets the requirements of Table 12A or 12(E)(2)(a) below, as approved by the Department or LPI:

TABLE 12A Backfill Textural Gradation

Sieve Size	Percent Passing by Weight
3 inches	100
#4	75-100
#10	50-100
#60	10-50
#100	2-20
#200	2-8
Clay Fraction	0-2

BOTTOM OF BED

Bottom of disposal field:

The bottom of each disposal field must be installed at the elevation specified on the permit. It must be maintained to a level grade no greater than 2 inches within 100 feet. Note: The bottom of a disposal field serves as the final stage of the distribution network.

FILL REQUIREMENTS

Depth of Fill (Upslope)

Depth of Fill (Downslope) _____

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-24”
Top of Distribution Pipe or Proprietary Device	-33”
Bottom of Disposal Area	-44”

ELEVATION REFERENCE POINT

Location & Description: Nail in 10” oak tree 36” above grade

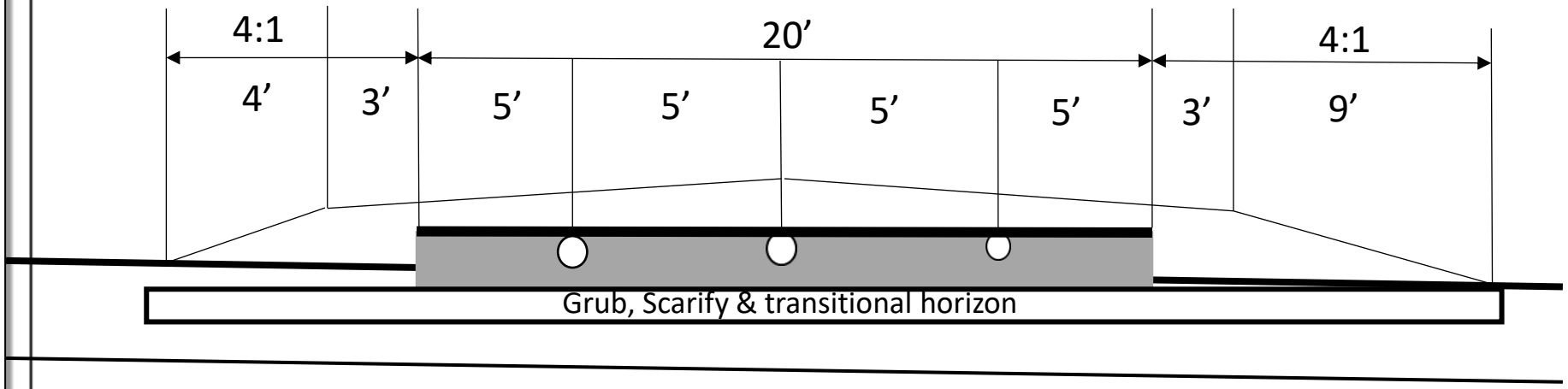
Reference Elevation: 0”

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = X ft.

Vertical 1" = X ft.



XXXXX XXXXXXXX — Site Evaluator Signature

SE#XXX — SE #

XX/XX/XXXX — Date

1 design

3) Grubbing, Scarific d (including fill extensions)

4) Elevation of the nt as sown on the design.

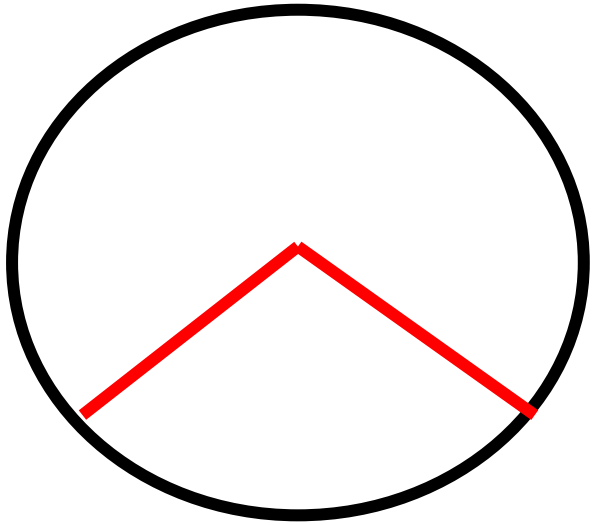
FIRS MPLETED,

DATE TI INSPECTION

MIT)

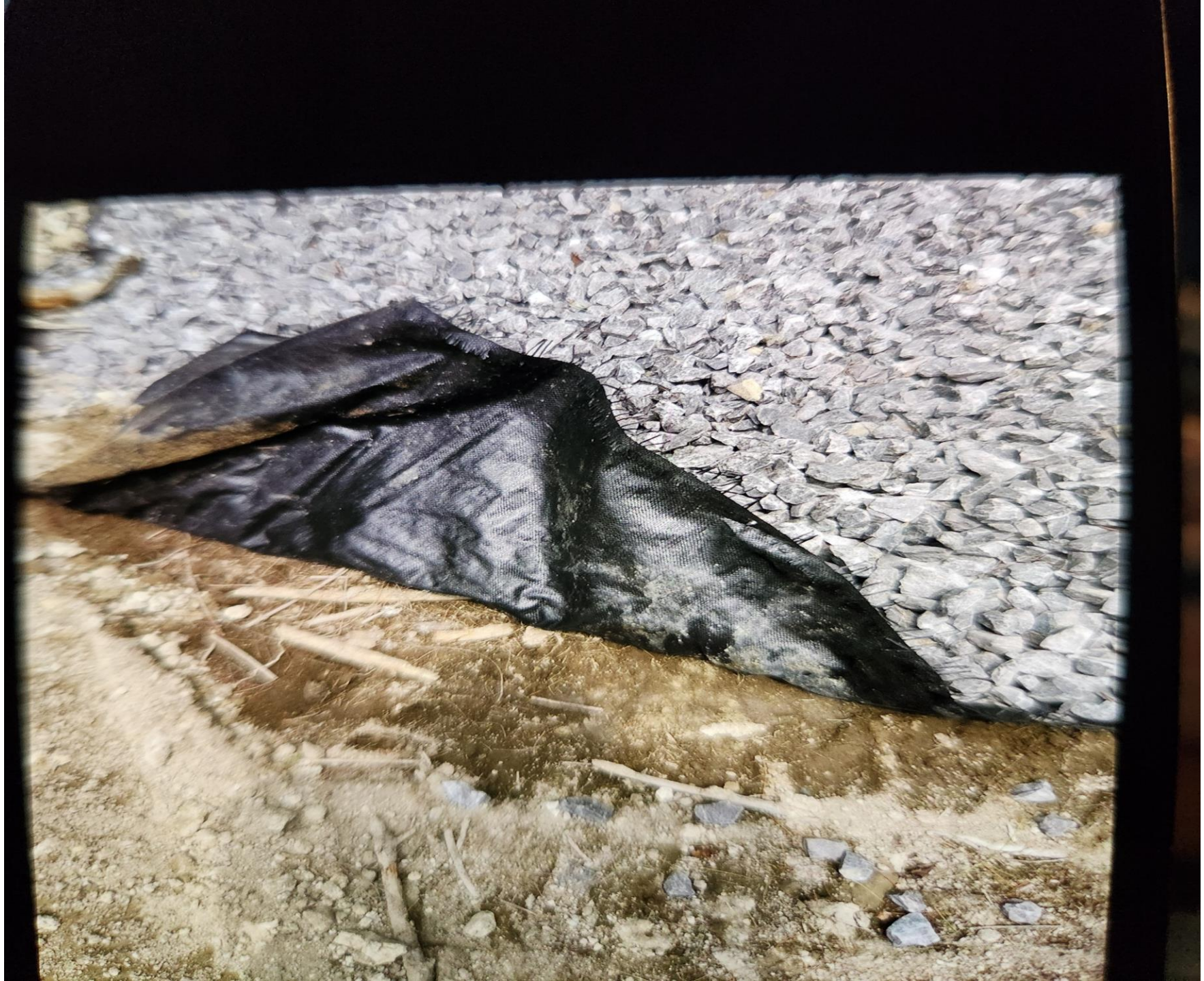
Perforations:

There must be two rows of evenly spaced perforations running the length of the distribution pipe. The rows must be on each side of the pipe, midway between the invert and the center line that separates the upper and lower halves of the pipe; i.e., at the 4 o'clock and 8 o'clock positions. Perforations must be no smaller than 3/8 inch and no larger than ¾ inch in diameter.

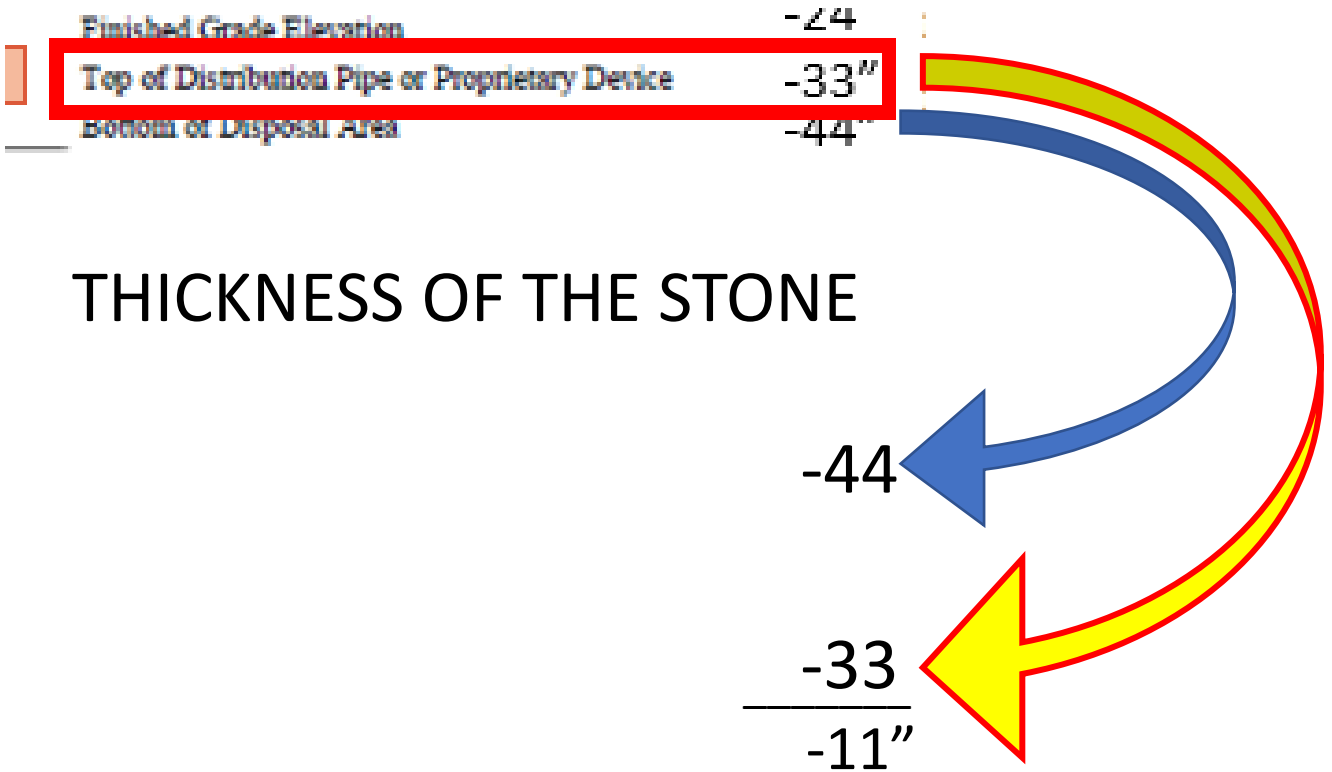


FILTER FABRIC GOES ON TOP OF THE STONE

HAS TO MEET CODE SPECS



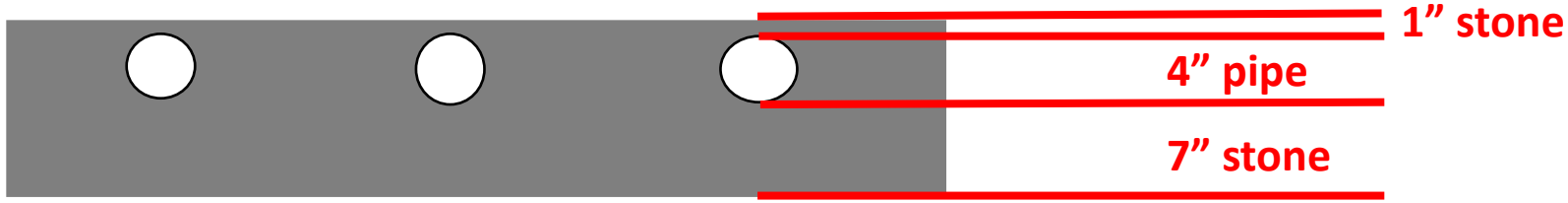
LPI ARRIVES ON THE SITE FOR THE SECOND INSPECTION



SECTION 11(F)(2)

(b) Thickness:

The disposal field stone depth for beds must extend at least 7 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes.

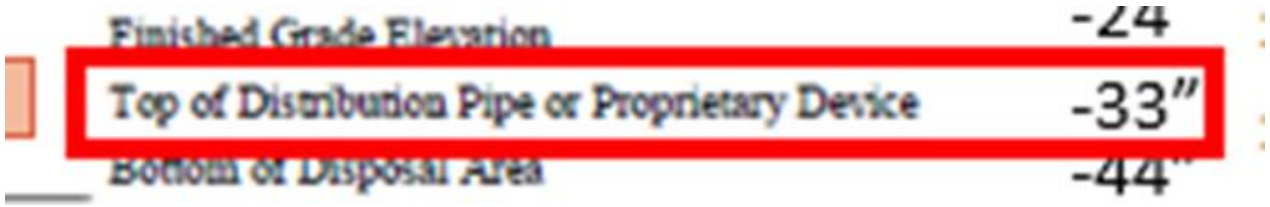


SECTION 11(F)(2)

b) Thickness:

The disposal field stone depth for beds must extend at least 7 inches beneath the bottom of the distribution pipes and must extend at least 1 inch above the top of the distribution pipes.

Just like with any other part of the code, this is a minimum requirement



These measurements should reflect the thickness of the stone on the design

TABLE 11B
Maximum Percent passing by weight

Sieve Size	Nominal Stone Size	
	1 ½ inches	¾ inches
2 inches	100	100
1 ½ inches	95 - 100	100
¾ inches	0 - 40	90 - 100
½ inches	0 - 20	0 - 55
3/8 inches	0 - 8	0 - 25
#4	0 - 5	0 - 10
#200	0 - 2	0 - 2

Only two sizes of stone are to be used

Usually noted on the design

If not specifically noted on the design the stone may be either size

Any question about the stone, get it sieved

D. CONSTRUCTION

Construction:

1. The installer of the system must make certain that the system and all its component parts are installed in conformance with the requirements of these Rules, the plan prepared by the site evaluator, and with any special engineering design requirements approved or required by the Department, pursuant to an approved variance.

Soil and backfill material:

2. The installer of the system must make certain that the construction and installation are performed without adversely affecting the capacity of the soil or backfill material to adequately absorb or treat the septic tank effluent.

Notification required:

The LPI must be notified at least 24 hours before the system is ready to be inspected.

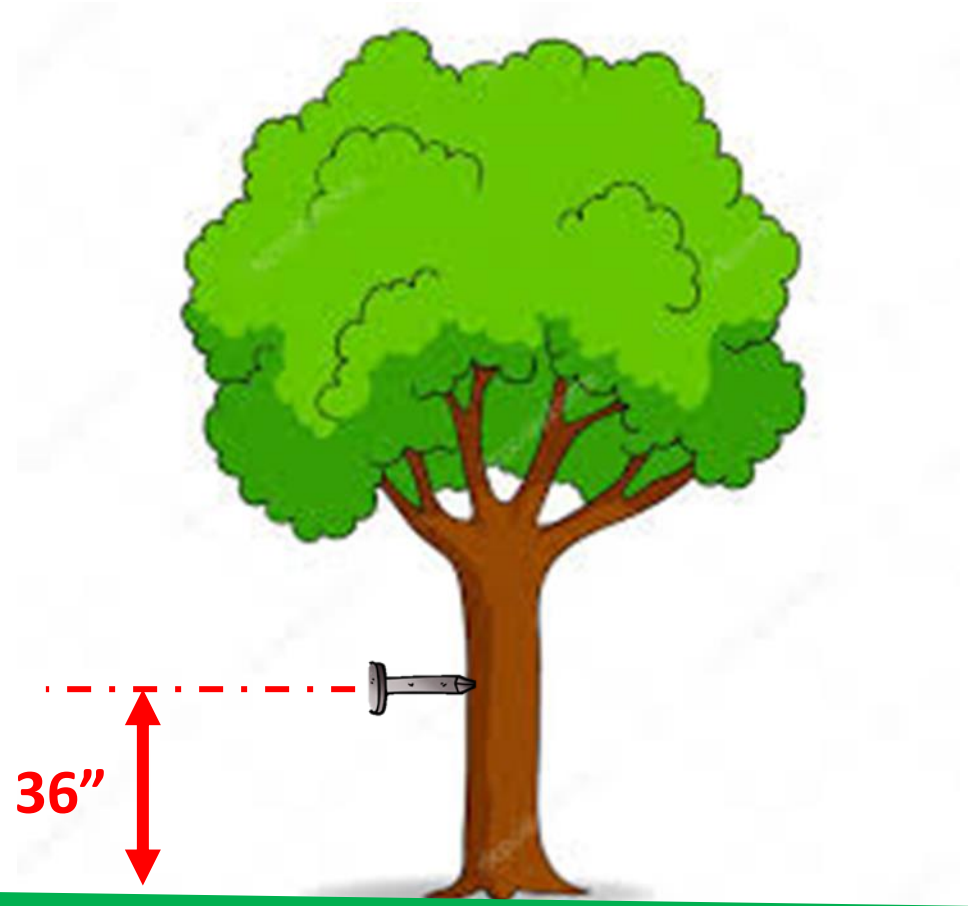
Covering of work:

No part of a system may be backfilled until it has been inspected and approved. If any part is covered before being inspected and approved, it must be uncovered at the discretion of LPI and at the expense and risk of the owner.

Preparation for inspection:

When a system is ready for inspection, the installer must make such arrangements as will enable the LPI to inspect all parts of the system. The installer must have present the proper apparatus and equipment for conducting the inspection and shall furnish such assistance as may be necessary in making a proper inspection.

TIME FOR THE SECOND INSPECTION



FILL REQUIREMENTS

Depth of Fill (Upslope)

Depth of Fill (Downslope) _____

CONSTRUCTION ELEVATIONS

Finished Grade Elevation	-24”
Top of Distribution Pipe or Proprietary Device	-33”
Bottom of Disposal Area	-44”

ELEVATION REFERENCE POINT

Location & Description: Nail in 10” oak tree 36” above grade

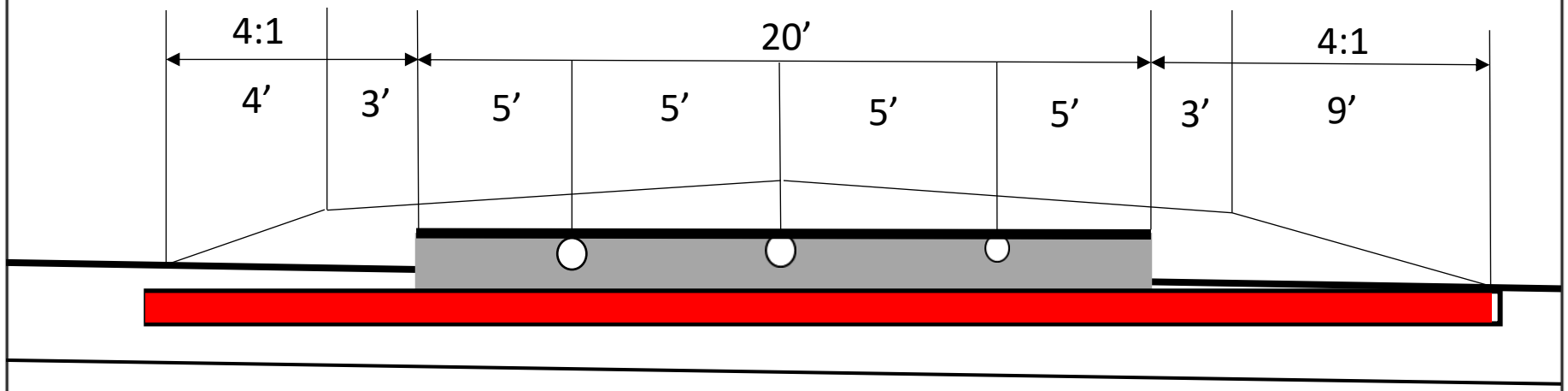
Reference Elevation: 0”

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = X ft.

Vertical 1" = X ft.



XXXXX XXXXXXXX — Site Evaluator Signature

SE#XXX — SE #

XX/XX/XXXX — Date

WATER LINES MUST BE A MINIMUM OF 10 FEET FROM THE DISPOSAL FIELD FOOTPRINT

AFTER THE HOLE IS DONE AND THE PIPE IS THROUGH, DOES IT HAVE TO BE SLEEVED?

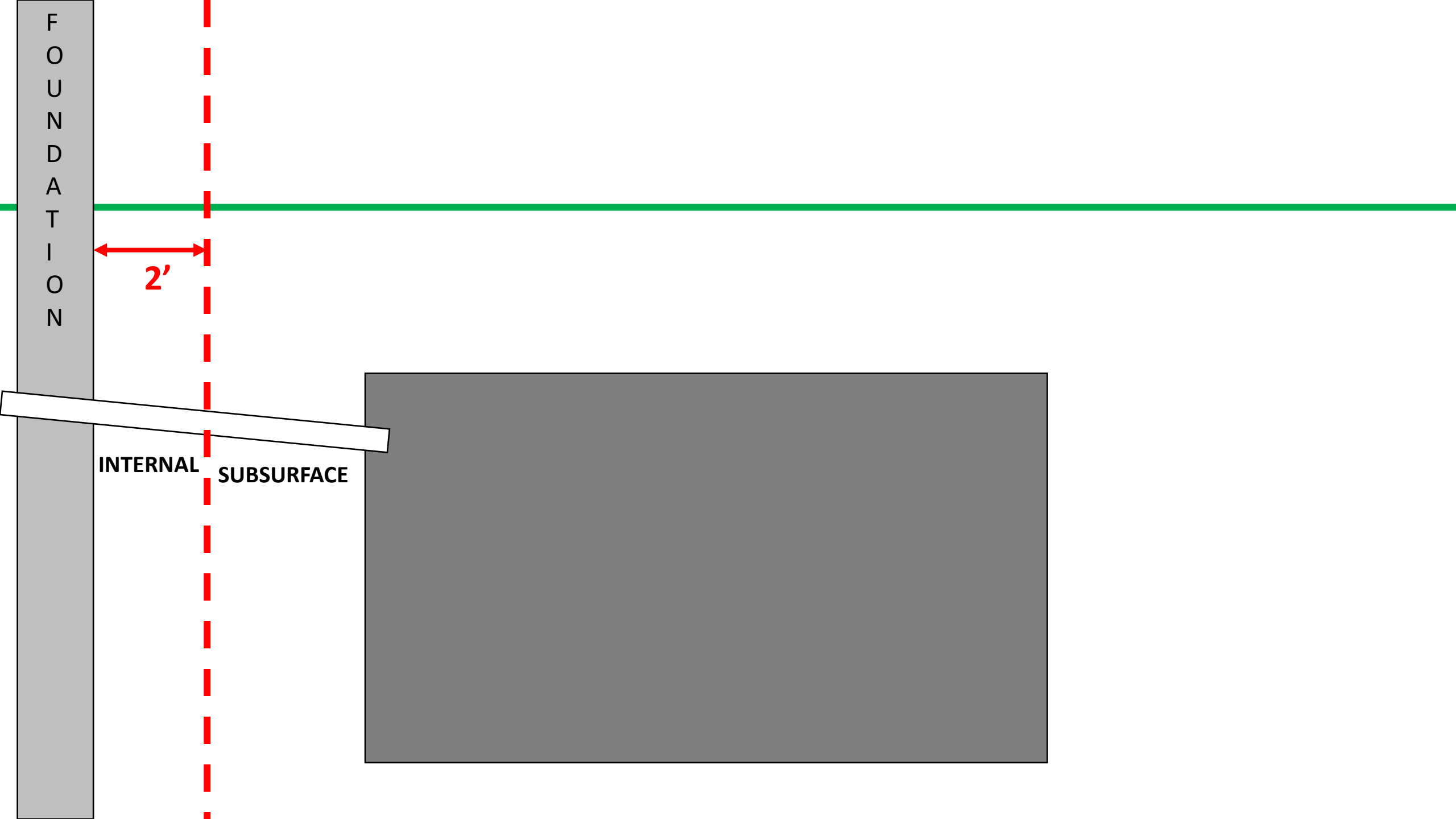
312.10 – SLEEVES

SLEEVES SHALL BE PROVIDED TO PROTECT PIPING THROUGH CONCRETE AND MASONARY WALLS, AND CONCRETE FLOORS.

EXCEPTION:

SLEEVES SHALL NOT BE REQUIRED WHERE OPENINGS ARE DRILLED OR BORED


WARNING


FOUNDATION
2’
INTERNAL
SUBSURFACE

CAN THE INSTALLER DRILL THE HOLE THROUGH THE FOUNDATION?

YES

CAN THE INSTALLER INSTALL THE SLEVE THROUGH THE FOUNDATION IF NEEDED?

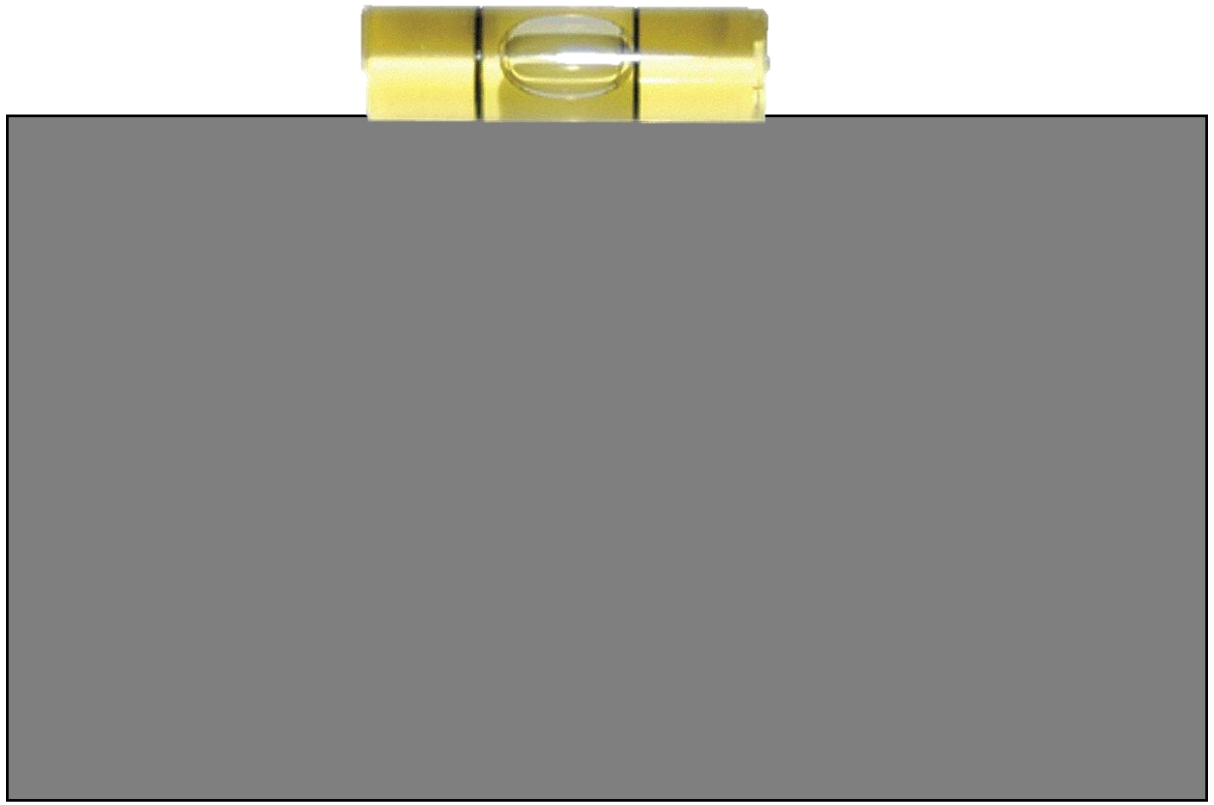
YES

CAN THE INSTALLER PUT THE BUILDING DRAIN THROUGH THE FOUNDATION WALL?

NO – INTERNAL PLUMBING
(UNLESS THEY ARE A MASTER PLUMBER)

BUT THEN AN INTERNAL PLUMBING PERMIT NEEDS TO BE TAKEN OUT.

Tanks



Tanks

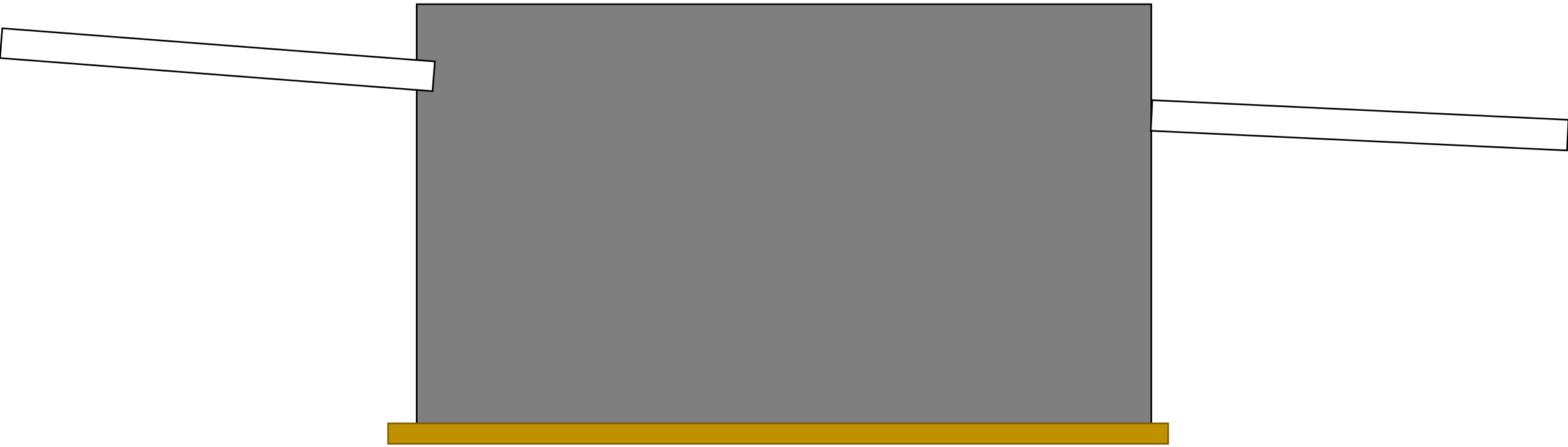
Page 40

When a baffle is used, the inlet pipe must be flush with the inside wall of the tank to prevent a buildup of solids between the inlet and the baffle.

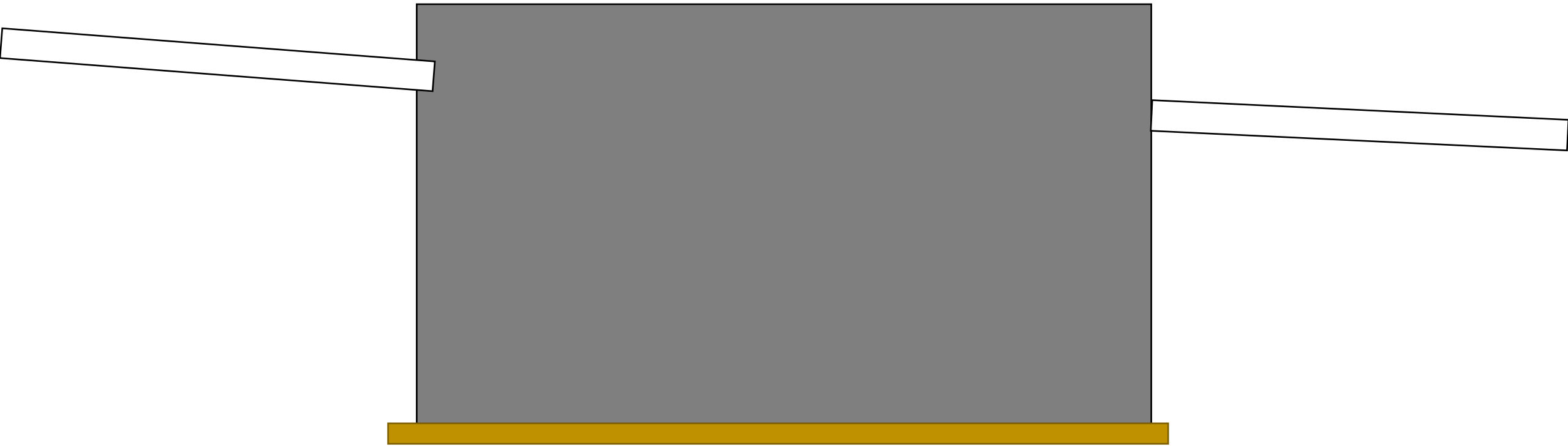
Tanks

Bedding:

All tanks must be bedded on a 4-inch minimum layer of clean sand, gravel, or stone. The bedding material must extend at least 4 inches beyond the base of the tank.

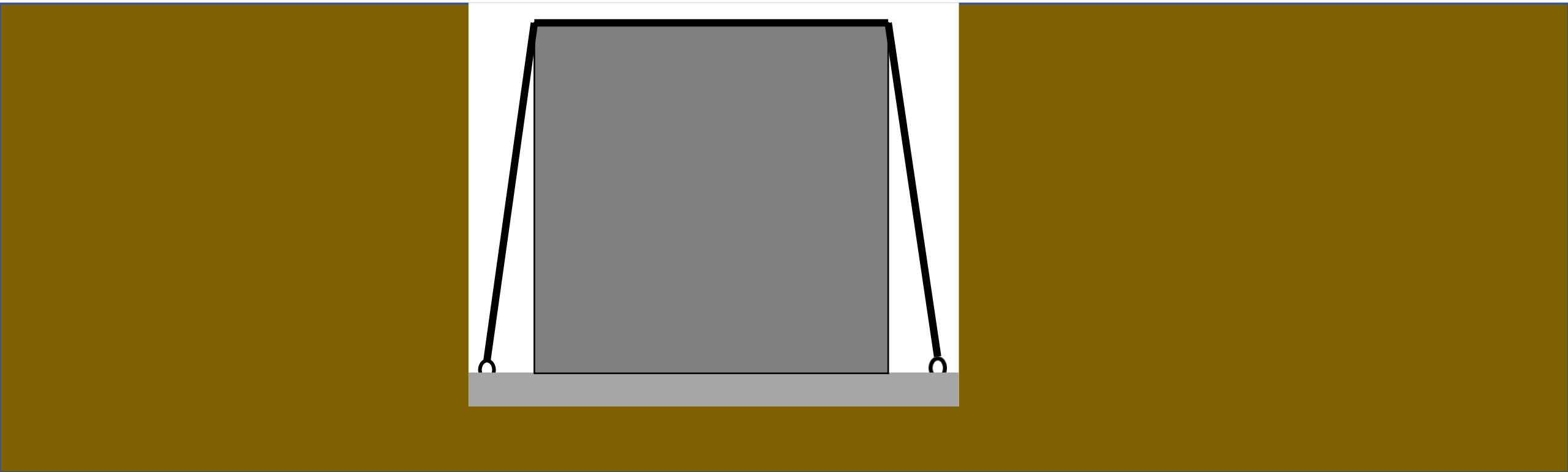


Tanks



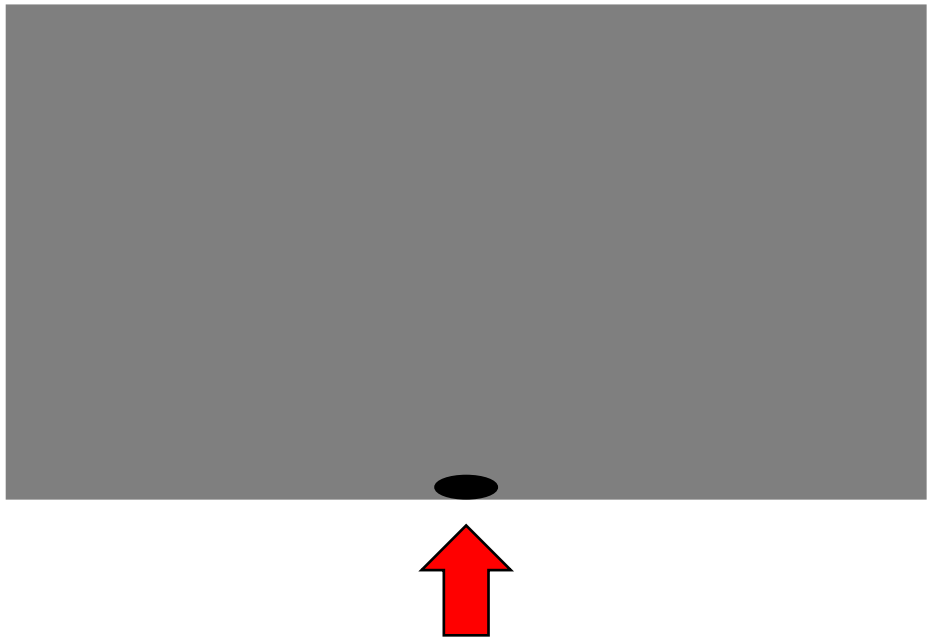
SECTION 6
APPROVED MATERIALS AND EQUIPMENT
H. TANK INSTALLATION

3. <u>Anti-floatation:</u> Provisions must be made to prevent the tanks from floating, if empty.



ANTI-FLOTATION DEVICE

Don't understimate the power of the almighty bunghole!



MUST BE PLUGGED!!

Frost protection:

Must be protected with at least 2 inches of high density expanded rigid polystyrene.


SCULLY
ZAXIS 160LC


ZAXIS
160LC
60'

Tanks

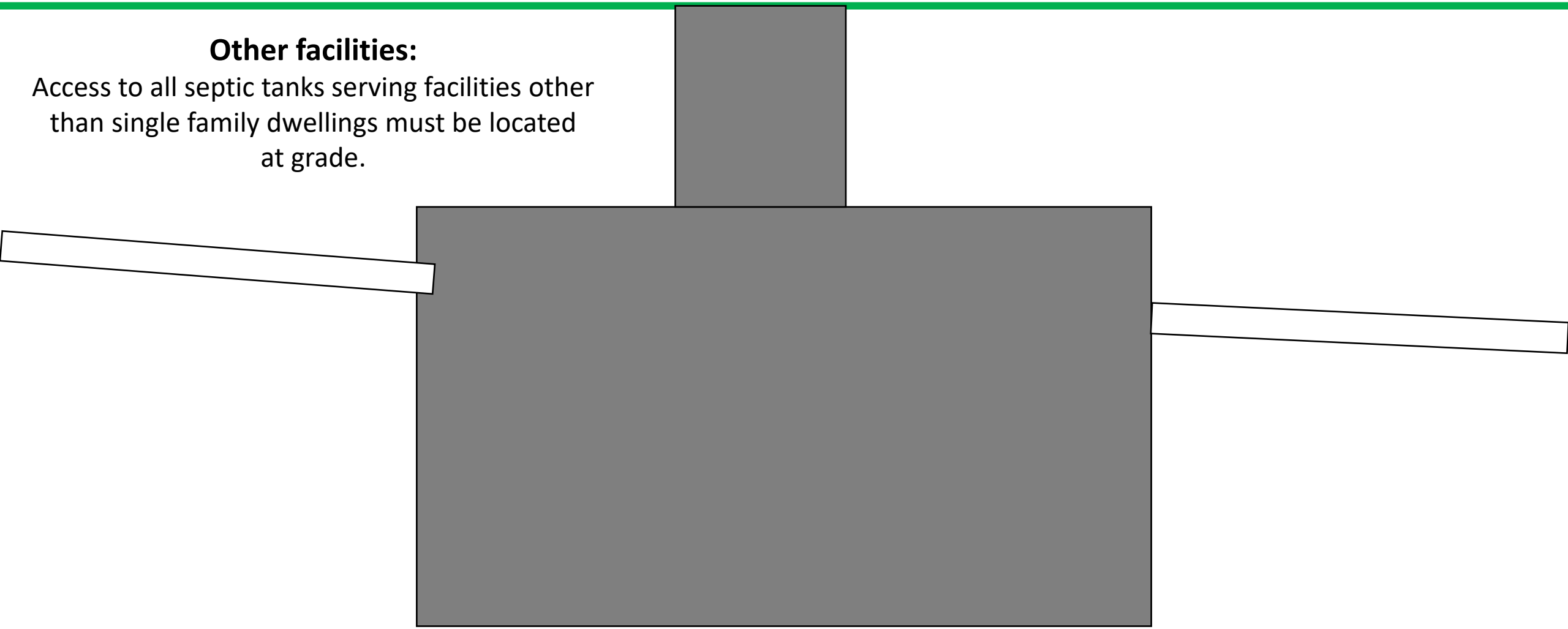
The riser must be located at the appropriate opening to facilitate pumping.

A separate riser must be extended to grade, if there is a pump station within the tank. Outlet baffles that utilize an effluent filter must have a riser extended to finish grade.

WHEN YOU D YOU TELL
THEM TO P E FILTER TO

Tanks

Other facilities:
Access to all septic tanks serving facilities other than single family dwellings must be located at grade.



Tanks

Covering the disposal field stone:
The disposal field stone must be covered with a layer of filter fabric.

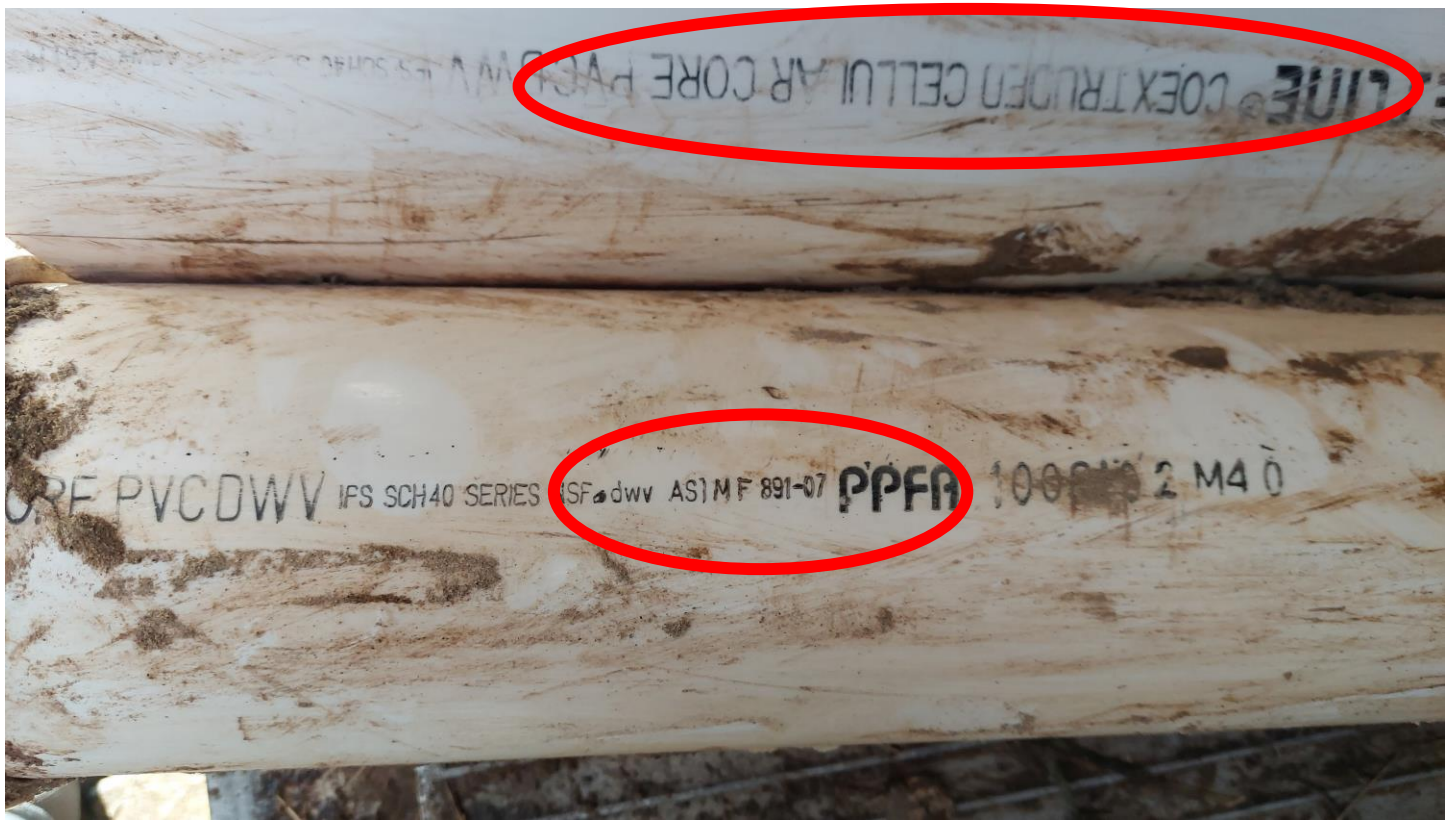
Overlapping filter fabric sheets:
Edges of adjacent sheets of fabric must be overlapped by a minimum of 6 inches

The minimum physical properties for the fabric must be 4.0 ounces/square yard (per ASTM D-3776).

Waterproof paper prohibited:
The use of waterproof paper to cover a disposal field is prohibited.

Covering the disposal field stone:

The disposal field stone must be covered with a layer of filter fabric



Building Sewer
Table 7H

PVC (ASTM D1785) Sch. 40
PVC (ASTM D2665) DWV Sch. 40
ABS (ASTM D2661) DWV Sch. 40
ABS (ASTM D1527) Sch. 40, 80
PVC (ASTM D3034) SDR 23.5, 26, 35, 41

WHEN SUBMITTING PERMITS TO THE STATE WITH YOUR 25%

IF A VARIANCE IS PART OF THE DESIGN, IT MUST BE WITH THE PERMIT

IF A DESIGN REQUIRES A STATE VARIANCE

THE STATE HAS TO SIGN OFF ON THE VARIANCE BEFORE IT CAN BE PERMITTED

Preparation for inspection:

When a system is ready for inspection, the installer must make such arrangements as will enable the LPI to inspect all parts of the system. The installer must have present the proper apparatus and equipment for conducting the inspection and shall furnish such assistance as may be necessary in making a proper inspection.


MOETER


JOHNSON


CST

2ND INSPECTION

Prior to covering the system:

The LPI must inspect the site after installation of the system components, including stone, pipes or proprietary devices, tanks, filter fabric, and fill beneath and beside of the disposal area, but before backfill is placed above the disposal system components. This inspection must include any curtain drains, diversion ditches, berms or other measures outlined on the design to improve the function of the system.

FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope) _____	Finished Grade Elevation	-40"	Location & Description: In drywall 60" up from grade
Depth of Fill (Downslope) _____	Top of Distribution Pipe or Proprietary Device	-49"	Reference Elevation: 0"
	Bottom of Disposal Area	-60"	

DISPOSAL AREA CROSS SECTION

Scale
Horizontal 1" = ____ ft.
Vertical 1" = ____ ft.

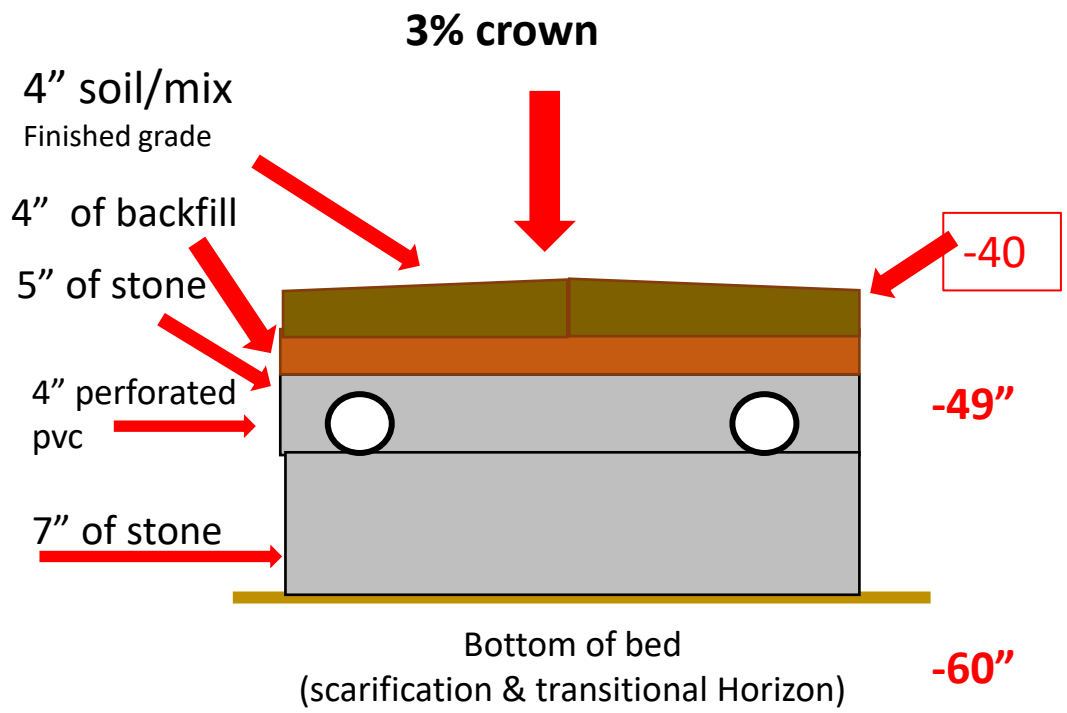
Site Evaluator Signature _____ SE # _____ Date _____

Minimum stone over piping?

1”

Total minimum stone thickness?

12”



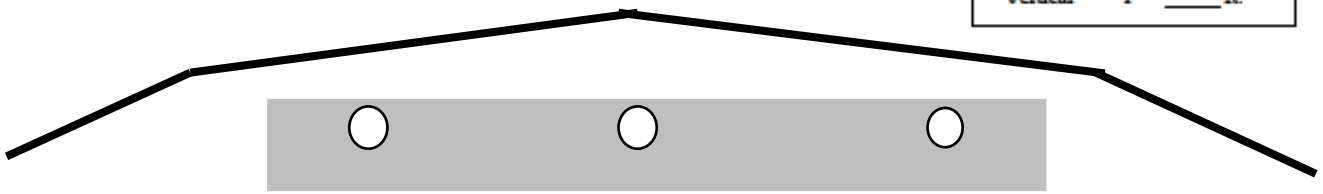
FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope) _____	Finished Grade Elevation	-40"	Location & Description: In drywall 60" up from grade
	Top of Distribution Pipe or Proprietary Device	-49"	
Depth of Fill (Downslope) _____	Bottom of Disposal Area	-60"	Reference Elevation: 0"

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = _____ ft.

Vertical 1" = _____ ft.



_____ _____ _____

Site Evaluator Signature SE # Date

NOT PART OF THE INSPECTIONS

Erosion control:

Immediately after completion of final grading, the fill material surface must be stabilized by mulching and seeding, or sodding, to establish a good vegetative cover to prevent erosion.


05.16.2018


KOBELCO
KOBELCO


DIG SAFE
811


MAINE
SEP
HV2POOP
Vacationland
24